C 84124 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION APRIL 2020

(CUCBCSS—UG)

Tourism and Hospitality Management

SDC 4ED 30—ENTREPRENEURSHIP DEVELOPMENT

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. An ———— is best described by Starting any business that is independently owned and operated.
2. ———— is the process of designing, launching and running a new business and that offering a product or service for sale.
3. Write a common characteristic of an entrepreneur.
4. Classify the entrepreneur on the basis of types ? Business.
5. Expand SIDCO.
6. Expand SISI.
7. Expand NIESBUD.
8. EXPAND IDBI.
9. Write the various types of Ownership.
10. Having less than 50 percent of equity share in an international venture is called ————.

(10 × 1 = 10 marks)

Section B (Short Answers Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Define Entrepreneurship.
12. Write any *four* problems of Entrepreneurship.

Turn over

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13. Write the characteristics of the small scale enterprise.
14. What is an ancillary unit ?
15. What do you mean by Market assessment ?
16. Write any five financial Institutions of Small Business ?
17. What is Family enterprise ?
18. Define project identification.
19. Define Economic development ?
20. Mention any *two* Factors affecting entrepreneurial growth.
21. Define Capital.
22. Define Social Factors.

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*

Each question carries 4 *marks.*

23. Briefly explain the entrepreneurial motivation.
24. Briefly explain the entrepreneurial competencies.
25. Write the Relevance of small scale Enterprises.
26. Briefly explain the entrepreneurial process.
27. What are the essential elements of business plan ?
28. Give an account on MSMEs.
29. Write a note on ownership structure in entrepreneurship.
30. Write the difference between an entrepreneur and a manager.
31. Why is entrepreneurship development important ?

(6 × 4 = 24 marks)

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Section D (Long Essay Type Questions)

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Briefly explain the types of an entrepreneur.

33. Briefly explain the relevance of small scale industry ?

34. Briefly explain the entrepreneurial process in a small enterprise.

35. What are the essential elements of business plan ?

(2 × 15 = 30 marks)

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C 84123 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Tourism and Hospitality Management

SDC 4AF 29—AIRFARES AND TICKETING

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is GMT ?
2. Expand IATA.
3. Decode the city code YTO.
4. Encode the city Beijing.
5. Encode the city Sanfrancisco.
6. Who is known as the father of Indian Aviation Industry ?
7. What is NUC ?
8. Expand BSP.
9. Expand HIP.
10. Expand EMS.

(10 × 1 = 10 marks)

Section B (Short Answer Type)

Answer any **eight** *questions.*
Each question carries 2 *marks*

11. What is GDS ?
12. What is Excess baggage ?
13. What is Charter airline ?

Turn over

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14. Name any *two* GDS.
15. What is CTM ?
16. What is E-visa ?
17. Define multiple entry visa.
18. What is Prepaid Ticket Advice ?
19. Define Open Jaw Trip.
20. Who is a Deported Passenger ?
21. What is a Passport ?
22. What is PNR ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Write a short essay on type of Journeys.
24. Encode the following cities :
    (a) Srinagar ; (b) Vadodara ; (c) Indore ; (d) Amristar ; (e) Kannor ; and (f) Goa.
25. Define open jaw and mention the three types of it with examples.
26. Write a short essay on 'types of fares'.
27. Briefly discuss about different types of Passports.
28. Explain OTA.
29. Briefly discuss about "Freedom of the Air".
30. A Fares established in the currency of the Country of commencement of travel–Explain.
31. What is a through fare ? Explain.

(6 × 4 = 24 marks)

Section D (Long Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. "Airline Connectivity Plays a major role in development of tourism". Discuss.
33. Briefly explain about the various types of VISAS ?

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34. Calculate the fare in NUC for the following itinerary :—

BUD – MA – ROM – AZ – BUH – GF – DXB In Y class.

BUD	–	DXB	YOW	959
	–	ROM	YOW	404
	–	BUH	YOW	256
ROM	–	BUH	YOW	631
ROM	–	DXB	YOW	1118
BUH	–	DXB	YOW	1252

MPM 3024 EMS 5M

TPM	BUD	–	ROM 515
	ROM	–	BUH 714
	BUH	–	DXB 2127

35. TPE – X/KUL – KHI – X/ISB – DXB – BUH

NUC = TPE – KHI – 762.52, TPE – DXB – 123.89,

TPE – BUH – 2288.48

KHI – DXB – 274.61, KHI – BUH – 1283.69,

DXB – BUH – 1440.60

TPM = TPE – X/KUL – 2018, X/KUL – KHI – 2750,

KHI – X/ISB – 701

X/ISB – DXB – 1213, DXB – BUH – 2017

Fare type is Y normal

Role – Y 146

MPH – EH7546

IROE – TWD 32.938000 (1) (0)

(2 × 15 = 30 marks)

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C 84122 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Tourism and Hospitality Management

SDC 4FO 28—FRONT OFFICE OPERATIONS

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Types)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Expand DND.
2. Name the tallest hotel in the world.
3. Name any heritage hotel in Kerala.
4. The Guest depature procedure is known as ?
5. Name the special room rate for corporates.
6. Name the hotel staff that is responsible for guest car parking.
7. Name any GDS system for hotel booking.
8. Name the room on two floors with an Interconnecting staircase.
9. Which hotel staff is responsible for handling all guest mail, information, parcels, couriers as per procedures ?
10. Expand "OOO".

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Define Resort hotel.
12. What is day rate ?
13. Define Check-in.

Turn over

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14. Define king size bed.
15. What is Guest Folio ?
16. What is Overbooking ?
17. What is Table d'hote ?
18. What is Scanty Baggage ?
19. What is a Guaranteed reservation ?
20. Define Lobby.
21. What do you understand by House Count ?
22. What is a reservation request ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Briefly explain the duties and responsibilities of Assistant Front office manager.
24. Briefly explain the duties and responsibilities of Senior Bell Captain.
25. Give an account of various type of rooms.
26. What are the various types of reservations ?
27. Write a short essay on various supporting devices used in front desk counter.
28. Explain VIP arrival procedure.
29. Briefly explain types of rooms.
30. Write the role of Internet in reservations.
31. Brief about the procedure for Issuing Room Keys.

(6 × 4 = 24 marks)

Section D (Long Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are the various sources of reservations ?
33. What do you understand by uniformed services ? Explain their duties and functions.
34. Write an essay on the duties and responsibilities of Front desk counter.
35. Explain SOP for VIP arrival.

(2 × 15 = 30 marks)

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C 84121 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Tourism and Hospitality Management

GEC 4ET 12—ECO-TOURISM

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Mention the year of Konni Eco-tourism Project.
2. Thenmala is in which district ?
3. Name the first National Park from India ?
4. Expand UNEP.
5. Write the major Eco-tourism resources.
6. Sunderbans mangroves is situated in which State.
7. Name any *three* Eco-tourism activities.
8. Expand WWF.
9. Bandipur National Park is situated in which State ?
10. Name the Sanctuary that is dedicated for Peacocks ?

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is Sustainability ?
12. Write any *four* National Parks from Kerala.
13. What do you understand by biospheric reserves ?
14. What is Nature tourism ?

Turn over

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15. Define Ecology.
16. Write a short note on Nilgiri biosphere reserve.
17. Who is an Eco-tourist ?
18. What is Wildlife Sanctuary ?
19. Mention any Eco-tourism destination in Kerala.
20. Mention a UNESCO Heritage National Park Project in Kerala.
21. Which State is called Gods Own Country ?
22. Define Eco-tour.

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Eco-tourism is an important type of alternate tourism. Comment.
24. Explain the process of EIA.
25. What are the Eco-tourism resources ?
26. Write an essay on Social and Cultural Conservation of Eco-tourism.
27. Write an essay on wildlife Sanctuaries in Kerala.
28. Briefly explain the importance of Eco-tourism in India.
29. Write the economic opportunities of Eco-tourism to the local people.
30. The gateway to the Thomankuthu Waterfalls in Idukki district is one of the major Eco-tourism destinations in Kerala—Explain.
31. Periyar National Park environment turns out to be a paradise for eco-travelers—Explain.

(6 × 4 = 24 marks)

Section D (Long Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Discuss the ways in which Eco-tourism has benefited for a tourism destination.
33. Explain why the following examples can be described as resources for eco-tourism Biosphere reserve, mangroves, coral reef, Beaches and deserts.
34. Describe the strategies involved in Eco-tourism development.
35. Write an essay on tourism and Eco-system.

(2 × 15 = 30 marks)

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C 84120 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Tourism and Hospitality Management

GEC 4AR 11—CULTURE AND CIVILIZATION

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

I أجب عن الأسئلة الآتية حسب الإرشادات: (12 × ½ = 6 marks)

- اختر ما يناسب مما بين القوسين :

1- ---------- أهم حاجة الإنسان أصليا (الطعام، السكن، التعليم)

2- ---------- الإقامة في الحضر (الثقافة ، الحضارة ، المدنية)

3- -------- ترجم كتاب "استناكر الجامع" إلى العربية (الدهلوي، ابن حسن الهندي، أبو الفضل الفيضي)

4- --------- مؤسس الجامعة الملية الإسلامية (مولانا محمد علي، سر سيد أحمد خان، المباركفوري)

- وفق بين العمودين:

5- مالك بن دينار	مهاتما غاندي
6- كومارانشان	جامعة عليكره الإسلامية
7- احمد شوقي	سرنديب
8- سر سيد أحمد خان	الزهرة الساقطة

- أجب في كلمة :

9- من هو مؤلف كتاب تحفة المجاهدين ؟

10- من هو اول من حمل لواء الإسلام إلى شمال الهند ؟

11- من هو مؤلف كتاب السادهنا ؟

12- من ترجم مهابهارتا إلى الفارسية ؟

Turn over

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II أجب عن عشرة من الآتية في جملة أو جملتين: (10 × 2 = 20 marks)

13- من هو مؤلف كتاب تحفة المجاهدين ؟ وما موضوعه ؟

14- من هو محمد بن قاسم الثقفي ؟

15- من هو مؤسس جامعة عليكره الإسلامية ؟

16- من الذي استعمل مصطلح الثقافة مقابل culture في العربية أولا ؟

17- ما هي العلوم الجديدة التي نقلها المسلمون إلى الهند؟

18- كيف وصف أحمد شوقي عن شخصية غاندي ؟

19- ما هي الثقافة ؟

20- ما هو مصدر الحضارة الإسلامية ؟

21- سمِّ اثنين من معالم الفن المعماري الإسلامي في الهند.

22- بأي لقب اشتهرت جامعة دار العلوم ديوبند ؟

23- ما معنى الثقافة والحضارة في اللغة الإنجليزية ؟

24- ما هي حقوق الأمير لأهل بلده؟

III اكتب مذكرة عن ستة من الآتية: (6 × 5 = 30 marks)

25- العمران البشري

26- الزهرة الساقطة

27- الثقافة والحضارة

28- المعاهد الإسلامية القديمة في الهند

29- تحفة المجاهدين

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30- نصائح شاه ولي الله الدهلوي للملوك والأمراء

31- رابيندرا نات طاغور في الأدب العربي

32- تأثير الإسلام في مجال العقيدة والحياة الاجتماعية

IV اكتب مقالة حول اثنين من الآتية: (2 × 12 = 24 marks)

33- مهاتما غاندي في الأدب العربي

34- تراث المسلمين في ثقافة الهند

35- تاريخ ظهور الإسلام في كيرالا

36- خصائص الحضارة الإسلامية

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C 84118 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Tourism and Hospitality Management

GEC 4FN 11—TRANSLATION AND COMMUNICATION IN FRENCH

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

I. A Ecrivez en mots :

1 09.20.

2 00.15.

3 12.05.

4 16.45.

5 03.50.

B Ecrivez en chiffres :

6 Huit heures du matin.

7 Midi.

8 Minuit.

9 Une heure moins le quart.

10 Treize heures.

(10 × 1 = 10 marks)

II. C Traduisez en anglais :

11 Félicitations.

12 Avion.

13 Accueil.

14 Rendez-vous.

15 La soirée.

Turn over

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D Traduisez en français :

16 The newspaper.

17 Lunch.

18 A book.

19 A ticket.

20 An island.

(10 × 2 = 20 marks)

III. Répondez à CINQ questions :

21 Traduisez en anglais :

a) Bonne appétit.

b) Une fête.

c) Bon voyage.

d) Bonnes vacances.

22 Traduisez en français :

a) What time is it ?

b) I was born in Italy.

c) I love to play cricket.

d) What does she do ?

23 Complétez

a) Est-ce que Tina est française ? Non, elle ————————.

b) Est-ce qu'elle parle bien français ? Non, elle ————————.

c) Est-ce qu'elle apprendle français ? Oui, elle ————————.

d) Est-ce qu'elle a des amis a Paris ? Oui, elle ————————.

24 Complétez avec le bon article

a) Le Louvre est ———————— (un/le) musée de Paris.

b) Au Louvres on peut voir (les/des) tableaux célèbres.

c) Pierre Durand est professeur a (une/l') école de musique.

d) C'est (un/le) bon professeur.

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25 Accordez les mots entre parenthèses :

a) (Cher) Eva.

b) Je suis à Paris pour 15 (jour).

c) C'est une très (beau) ville.

d) Nous avons visite tous les (monument célèbre).

26 Mettez les verbes au présent :

a) Ou tu (être).

b) Qu'est- ce que tu (faire).

c) Je (être) a Paris.

d) Je (faire) un stage de théâtre.

27 Complétez avec les prépositions :

a) Antonio est ne ———— Espagne.

b) Il est venu ———— Paris.

c) Il est arrive hier ———— 10 heures.

d) Il habite ———— un ami.

28 Mettez les verbes au passe compose :

a) Le weekend dernier, qu'est-ce que tu (faire).

b) Je (aller) a la montagne avec Paul.

c) Le samedi, Paul et les enfants (partir) faire du VTT.

d) Moi, je (rester) au chalet.

(5 × 4 = 20 marks)

IV. Répondez aux DEUX sujets suivants :

29 Traduisez en anglais :

Sarah - Melissa, tu as vu Florent ?

Melissa - Non

Lucas - Moi, non plus. Quelle heure est-il ?

Sarah - Huit heures

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Melissa - Ah oui, c'est bizarre... Et Florent n'a pas de portable ! Noémie est arrivée ?

Noémie - Oui, je suis la !

Melissa - Tu as vu Florence après la répétition de 10 heures

Noémie - Oui, à midi, on a déjeuné ensemble. Puis on est allé au jardin de Luxembourg. Et a quatre heures, je suis rentrée a la Cite

Sarah - Et Florent, qu'est ce qu'il a fait ?

Noémie - Je ne sais pas. Il n'est pas venu avec moi

Lucas - Moi, Sarah, je suis la. Je peux jouer le rôle de Florent

30 Traduisez en anglais :

Lucas - (Il chante) « Il est cinq heures, Paris s'éveille....»

Sarah - Melissa, Florent ! Mardi, il y a le casting d'une nouvelle comédie musicale. Vous êtes intéressés ?

Melissa - Ah, oui !

Sarah - Et vous, Florent, vous allez continuer le chant !

Florent - Je ne sais pas. J'aime chanter, j'aime jouer, mais j'aime aussi mon école de Fort de France, mes copains

Un jeune homme - Noémie ! Noémie !

Noémie - Maxime ! Qu'est ce que tu fais la ? Tu es arrive quand en France ?

31 Décrivez votre journée.

(2 × 15 = 30 marks)

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C 84115 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Tourism and Hospitality Management

GEC 4TL 12—TOURISM LAW AND REGULATORY FRAMEWORK

(2014 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Types)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Mention the year of Foreigner's act.
2. Define Law.
3. Who is the minster for Law, Government of Kerala ?
4. Which is the first travel agency in India ?
5. Mention the year of Consumer Protection Act.
6. Mention the year of Wildlife Protection Act.
7. Expand WL(P)A.
8. Who is the Director General of ASI ?
9. ———— is a system of rules that are created and enforced through social and Governmental Institutions ?
10. The adjudication of the Law is generally divided into ———— main areas.

(10 × 1 = 10 marks)

Section B (Short Answer Types)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is Business ethics ?
12. Define Foreigner.
13. What do you mean by hospitality ?
14. What do you mean by wildlife ?

Turn over

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15. What is a consumer ?
16. Define ancient monument.
17. Define Service.
18. What do you mean by RTI ?
19. What is meant by Law ?
20. Define Ethics.
21. What is meant by Business compulsions ?
22. What is meant by motivation ?

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Write a note on Business ethics.
24. Write a note on ICAO.
25. What are the powers to control places frequented by foreigners as per foreigners act ?
26. Write a note on penalties in relation to Consumer Protection Act.
27. Give an account on Wildlife Protection Act.
28. Write a note on passport act of India.
29. Explain Ethical parameters.
30. What is meant by Restricted area ?
31. What is meant by wildlife area permits ?

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Briefly explain about the principles and practices in business.
33. Explain in detail the sailent features of Kerala Tourism (conservation and preservation of areas) act 2005.
34. Give an account of National Commission of consumer protection.
35. Explain the importance of Travel Insurances.

(2 × 15 = 30 marks)

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C 84112 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Software Technology

SDC 4S T14—SOFTWARE TESTING TOOLS

Time : Three Hours Maximum : 80 Marks

Part A

Write short answer on **all** *questions.*
Each question carries 1 *mark.*

1. Test cases are designed during ————.
   (a) Test recording. (b) Test planning.
   (c) Test configuration. (d) Test specification.
2. The main focus of acceptance test is ————.
   (a) Finding faults in the system.
   (b) Ensuring that the system is acceptable to all users.
   (c) Testing the system with other systems.
   (d) None of these.
3. How many types of checkpoints are there in WinRunner ?
   (a) 3. (b) 4.
   (c) 8. (d) 5.
4. Which scripting language is used in WinRunner ?
   (a) Tool Command Language.
   (b) VB Script.
   (c) Test Script Language.
   (d) None of the above.
5. What is LLR ?
6. What is the LoadRunner term that describes the time a user pauses between steps ?

Turn over

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7. ———— is the practice of organizing and controlling the process required for the testing effort.
8. ———— is a subset of the tests in your project, run together in order to achieve a specific goal.
9. The QTP script files are stored in the extension of ————.
   (a) *.mts. (b) *.usr.
   (c) *.mtr. (d) *.vbs.
10. Purpose of set_window command is ————.
   (a) Set focus to a specified window.
   (b) Leave focus from a specified window.
   (c) Open a window.
   (d) None of the above.

(10 × 1 = 10 marks)

Part B

Write a paragraph on any **eight** *questions.*
Each question carries 2 marks.

11. What is software testing ?
12. What is verification and validation ?
13. What is Integration Testing ?
14. What is a test frame ?
15. What is a Vuser ?
16. What is Silk Test project ?
17. What are the three modes of running the scripts in WinRunner ?
18. What is JMeter ?
19. What is test plan tree ?
20. What are the uses of filters in Test Director ?
21. What is action split and the purpose of using this in QTP ?
22. What are the types of environment variables in QTP ?

(8 × 2 = 16 marks)

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Part C

Write short essay on any **six** *questions.*

Each question carries 4 *marks.*

23. Write short notes on black box testing and white box testing.
24. What are stubs and drivers ?
25. Explain GUI map.
26. Write short notes on silk test.
27. Explain checkpoints in SQA robot.
28. Explain performance testing tool with an example.
29. Explain code optimization.
30. Explain configuration management.
31. Explain the steps in testing a Web application.

(6 × 4 = 24 marks)

Part D

Write essays on any **two** *questions.*

Each question carries 15 *marks.*

32. Explain different types of testing.
33. Explain the pros and cons of using automated testing tools.
34. Explain load testing and stress testing.
35. Explain database application testing.

(2 × 15 = 30 marks)

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C 84110 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Software Development

SDC 4IT 14—ADVANCED COMPUTER NETWORKS

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. ———— protocol is used by TCP for flow control.
2. ———— is the default port number used by HTTP.
3. UDP is a ———— layer protocol.
4. ———— sockets are connection oriented.
5. ———— is the maximum number of callers in each cell of a GSM.
6. FIFO also known as ————.

   (a) Named pipes. (b) Unnamed pipes.

   (c) Unanimous pipes. (d) Structured pipes.

7. The system call that associates an address to socket descriptor created by ————.

   (a) Bind. (b) Nice.

   (c) Fork. (d) Call.

8. In wireless ad-hoc network ————.

   (a) Access point is not required.

   (b) Access point is must.

   (c) Nodes are not required.

   (d) None of the above.

Turn over

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9. GPS stands for ————.

   (a) Global Positioning System.

   (b) General Positioning System.

   (c) Grand Positioning System.

   (d) General Positioning Source.

10. Bluetooth uses ————.

   (a) Frequency hoping spread spectrum.

   (b) Orthogonal frequency division multiplexing.

   (c) Time division multiplexing.

   (d) None of the above.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is the main function of UDP ?
12. Define SNMP inform.
13. Explain message queue.
14. Differentiate between semaphore and mutex.
15. What are FIFOs ?
16. Describe synchronous and asynchronous socket modes.
17. What is SSL ?
18. What do you mean by reserved port ?
19. What is Mobile switching centre ?
20. What is WiFi ?
21. List out the advantages of ZigBee.
22. Define Foreign Agent.

(8 × 2 = 16 marks)

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Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Describe NFS file system model.
24. What is piggy-backing ?
25. List out the types of sockets.
26. Draw TCP segment format.
27. Differentiate between *accept()* and *listen()* system call.
28. What is mobility management ?
29. Describe the architecture of IEEE 802.11 standard.
30. Write a note on 4G.
31. What is GPS ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Differentiate between FTP and TFTP.
33. Write a program to create a message queue and read message from the queue.
34. Explain asynchronous I/O.
35. Explain the working of mobile IP.

(2 × 15 = 30 marks)

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C 84109 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Software Development

SDC 4IT 13—OPERATING SYSTEMS

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———————— is the essential piece of software used in batch systems.
2. ———————— is the expansion of FCFS.
3. The wastage of memory space that is not any part of the memory partition is called ————————
4. ———————— is the only one directory that holds all files in the single-level directory structure.
5. ———————— UNIX command is used to list all the files in the system.
6. Which is the first program to run when the system is switched on ?

   A. Windows. B. Operating System.

   C. BIOS. D. None of the above.

7. The processes that coexist in the memory at the same time and exchange data with each other is called ————————.

   A. Concurrent process. B. Independent process.

   C. Competitor. D. Co-operating process.

8. Which of the following is function of memory management ?

   A. Memory allocation. B. Memory deallocation.

   C. Free space management. D. All of the above.

9. In linked allocation contiguous blocks are grouped together as ————————.

   A. Hole. B. Cluster.

   C. Swap space. D. None of the above.

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10. ———————— statement is used to display anything in UNIX.

A. Display. B. Echo.

C. Print. D. Write.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What do you mean by Booting ?
12. What do you mean by system software ?
13. What are the two types of Real Time Systems ?
14. What is IPC ?
15. What is SJF scheduling algorithm ?
16. Define CPU scheduling.
17. Explain thrashing.
18. What do you mean by fragmentation ?
19. Explain the common file structure.
20. What are the various file operations ?
21. Explain the different types of shells in UNIX.
22. What do you mean by Kernel ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is the significance of cloud computing ?
24. What is the differences between parallel systems and distributed system ?
25. Explain resource allocation graph algorithm.
26. What are the differences between process and program ?
27. Explain paging with neat diagram.

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C 84105 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Pharmaceutical Chemistry

SDC 4PH C02—INDIAN DRUG REGULATORY GUIDELINE AND PHYSICAL PHARMACY

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1) A source or situation that poses danger to property, to the environment or to the life, health and well being of human and other organism is referred to as ————.
2) Portion of skin effected by acid burns should immediately be flushed with lots of ————.
3) NDA stands for ————.
4) HSE stands for ————.
5) Example for occupational infection.
6) Wildlife Protection Act in which year ?
7) Poison Act on ———— year.
8) Very fine powder is the one which ————.
9) Sieve number of coarse powder is ————.
10) Fluid energy mill works n the principle of ————.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11) What is hazard ?
12) What is the correct procedure for diluting an acid ?
13) What is the first aid for a minor heat burn ?
14) What is desiccant ? Give an example.

Turn over

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15) What is ISO 9000 ?

16) Write a note on occupational hygiene.

17) Write a note on the role of drug inspector.

18) What are cosmetics ?

19) Write down the principle of Ball mill.

20) What are the advantages of sieving method ?

21) Write down the principle of cyclone separation.

22) Write a note on coarse powder.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23) What are the rules to be followed while handling chemicals ?

24) Explain the first aid to be administered to a victim of electric shock.

25) Write a short note on laboratory safety practices.

26) Write a note New Drug Application.

27) Write a note on scope and purpose of OSH standards.

28) Write a note on patenting procedure.

29) Write down the importance of particle size reduction.

30) What are the features of fluid energy mill ?

31) Write a note on the gravitational sedimentation of particle in a liquid.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32) Explain the simple first aid procedures that have to be administered to victim if they suffer burns from heat, acid, alkali, phenol and bromine.

33) What are the stages of drug approval ?

34) Explain briefly about Potential health hazards.

35) Explain the conditions for labelling and packing of drugs.

(2 × 15 = 30 marks)

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C 84104 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Pharmaceutical Chemistry

SDC 4PH C01—DRUG DESIGN AND PHARMACOLOGY

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions and each question carries* 1 *mark.*

1. ADME means ————.
2. Prophylactic drug means ————.
3. Give two examples of specific drugs.
4. What is antagonism ?
5. The limit test for arsenic is based upon ———— test.
6. Ferrous gluconate is used as ————.
7. Important alkaloid present in tea leaves.
8. One drug used to test Morphine addict.
9. Detomidine is an ———— adrenoceptor agonist.
10. Deficiency of ———— in the CNS is manifested as Parkinson's disease.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions and each question carries* 2 *marks.*

11. Write a note on target validation in the new drug discovery.
12. How to alter the metabolism by molecular modification ?
13. Define biological lag.
14. What is drag synergism ?

Turn over

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15. Write a note on physiological role of ferrous fumerate.
16. Write an identification test of ferrous sulphate tablet.
17. Give the advantage and disadvantage of N_2O and halothane.
18. What are the clinical uses of phenytoin ?
19. Describe the synthesis of levodopa.
20. Write the structure of aspirin and paracetamol
21. What is the difference between morphine and pethidine ?
22. Explain synthesis of diclofenac.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions and each question carries 4 marks.*

23. Explain random screening of drug discovery.
24. What are the factors influencing drug absorption ?
25. Explain briefly pharmacokinetics.
26. Give the assay of dried aluminium hydroxide tablet.
27. Write a note on light MgCO3.
28. Give the synthesis of topiramate.
29. Explain the different types of epilepsy.
30. Write about NSAIDs drugs.
31. Write a note on centrally acting muscle relaxants.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions and each question carries* 15 *marks.*

32. What are the advantages and disadvantages of various route of administration of drugs ?
33. Write the synthesis of buspirone, nikethamide, enflurane, phenobarbital and tacrine.
34. How are drugs absorbed by GI tract ?
35. Discuss on hypnotics, sedative and anxiolytic agents.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 84103 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Pharmaceutical Chemistry

GEC 4PH C02—INORGANIC CHEMISTRY—III

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions and each question carries* 1 *mark.*

1. The precipitation of a substance occurs when its ionic product ———— its solubility product.
2. The most metallic group 15 element is ————.
3. The outer mantle of solid earth is called ————.
4. The radioactive isotopoe of hydrogen is ————.
5. ———— wastes are those which pose substantial threats to public health / environment.
6. S_4N_4 tends to detonate with decomposition into nitrogenand ———— on heating or on shock.
7. Which substance is known by the short form PAN ———— ?
8. The most electronegative element of group 14 is ————.
9. Which noble gas is used in the radiation therapy of cancer ?
10. Term used to represent solvents that do not have proton accepting or proton donating tendency ————.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions and each question carries* 2 *marks.*

11. What is common ion effect ?
12. What is post precipitation ?
13. Distinguish between *o*-hydrogen and *p*-hydrogen ?
14. Name and formulate two dibasic oxoacids of phosphorus.

Turn over

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15. What is inert pair effect ?
16. Explain acid rain.
17. What are the three sources of air pollution ?
18. What are silicones ?
19. What are industrial waste ?
20. Mention two uses of biogas.
21. What is ammonolysis ? Give equations.
22. What is meant by syngas? What is its significance ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions and each question carries* 4 *marks.*

23. Discuss different types of errors during analysis.
24. Why alkali metals are strong reducing agents ?
25. Explain Ostwald's process for the manufacture of HNO_3.
26. What are zeolites ?
27. What is thermal pollution. How can it be controlled ?
28. What is biogas ? How is it produced ? Discuss its advantages.
29. Write short note fullerenes.
30. Give an account of precipitation in gravimetry.
31. What are non-aqueous solvents ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions and each question carries* 15 *marks.*

32. Discuss coprecipitation .How can it be minimised in gravimetric methods.
33. Discuss the manufacture of NH_3 by Haber's process. Explain the action of aqueous NH_3 on the solution of $CuSO_4$ and Nessler's reagent.
34. Discuss the preparation, properties and structure of borazine.
35. What are silicones ? Give its classification and application of each class.

(2 × 15 = 30 marks)

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C 84102 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Pharmaceutical Chemistry

GEC 4PH C01—PHYSICS—II

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. The intensity at the central maximum in double slit experiment is I. What is the intensity at a point where the path difference is $\lambda/4$?
2. In ———— diffraction the source screen distance is infinite.
3. Efficiency of half wave rectifier is ————.
4. Current gain in a CB configuration is ————.
5. Total normal electric lines of force passing through a given area is ————.
6. The thermal velocity of electrons in a conductor is of the order of ———— m/s.
7. The value of angle of dip at poles is ————.
8. The energy equivalent of 1 amu is ————.
9. Which is the only hadron stable in free space ?
10. Expand LASER.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is destructive interference ? What is the condition for it ?
12. Distinguish between Fresnel diffraction and Fraunhofer diffraction.
13. What is the leakage current in CB transistor ?
14. State and prove Gauss's Law.
15. Give some properties of ferromagnetic substances.
16. Why neutrons have magnetic moment ?

Turn over

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17. What is mass defect ?
18. What is the function of moderator in a nuclear reactor ?
19. What are Quarks ?
20. What is meant by stimulated emission ?
21. What are Hyperons ? Give two examples.
22. Sketch the block diagram of communication system.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Derive Snell's law of refraction using Fermat's principle.
24. A centre-tap full wave rectifier is connected to a transformer secondary of the type 6-0-6 V. If the forward resistance of each diode is 4 Ω and load resistance is 400 Ω, find the DC load current and efficiency of the rectifier.
25. Show that the curl of an electric field in a region is always zero.
26. What is drift velocity ? Derive the expression for it.
27. Find the earth's magnetic field at a place where the angle of dip is 60° and horizontal component of earth's field is 0.3G.
28. Explain fission and fusion from the binding energy curve.
29. Explain population inversion. How it becomes a basic requirement for lasing actions ?
30. Compare amplitude and frequency modulation.
31. What are resonance particles ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the superposition of two sinusoidal waves. Deduce expression for resultant amplitude and intensity.
33. Draw the CB, CE and CC configurations and draw their output characteristics. Define α and β and obtain the relationship between them.
34. Explain the theory of vibration magnetometer. With the help of Searie's vibration magnetometer, how can we find the magnetic moment of a magnet ?
35. Explain amplitude modulation and obtain an expression for the instantaneous voltage of modulated wave. What are side bands ?

(2 × 15 = 30 marks)

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C 84101 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Pharmaceutical Chemistry

SDC 4PH 04—PHARMACEUTICS–III

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. The Indian Pharmacopoeial list was published as a supplement to ————.
2. ICH stands for ————.
3. The first edition of pharmacopoeia of India was published in ————.
4. On mixing two eutetic substances a liquid is formed due to ———— of mixture to ———— room temperature.
5. Alkaloidal salts when dispensed with ———— preparations, the free alkaloid may be precipitated.
6. Sieve number of coarse powder is ————.
7. Hammer mill works on the principle of ————.
8. Define Sterilization.
9. In Peptic Ulcer Patients ———— are contra-indicated.
10. What is very fine powder ?

(10 × 1 = 10 marks)

Section B (Short Answer Types)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Give the main features of International Pharmacopoeia.
12. List out the new drug delivery systems.
13. Write the full form and meaning of the following Latin terms :
    a) p.c.
    b) Q.i.d.

Turn over

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14. Define the term Subscription.
15. What are the various mechanism of size reduction.
16. Define the term Sieve Number.
17. Write a note on Hand Homogenizer.
18. Describe the incompatability of iodides.
19. Give a note on mixing of semisolids.
20. How will you sterilize intravenous fluids ?
21. Explain the principle on which Ball mill works.
22. Give two advantages of particle size reduction.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain the scope of pharmacy.
24. Write the importance of age in the prescription.
25. Differentiate between tolerated and adjusted Incompatibility.
26. Explain the following :
    a) Immiscibility ;
    b) Liquefaction ;
    c) Insolubility ;
    d) Precipitation.
27. What are the desirable features of pharmaceutical containers ?
28. What are the various grades of coarse powder ?
29. Describe the construction and working of fluid energy mill with the help of a diagram.
30. Explain gaseous sterilization.
31. Write a note on Filter Candles.

(6 × 4 = 24 marks)

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Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the following :

    a) Dry heat sterilization.

    b) Sterilization by radiation.

    c) Sterilization by filteration.

33. Write briefly on :

    a) Colloid mill.

    b) Agitated Powder Mixer.

    c) Triple Roller mill.

34. Explain the official standards for powders. Describe the construction and working of a Disintegrator. Add a note on the factors affecting size reduction.

35. Explain the different types of pharmaceutical containers. Write the merits and demerits of rubber and glass material for packing. Add a note on aerosol packing.

(2 × 15 = 30 marks)

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C 84100 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Pharmaceutical Chemistry

GEC 4PG 01—PHARMACOGNOSY

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Plant cell and its components are studied by using ————————.
2. What is the colour of glycosides ?
3. Give any *two* chemical constituents of Shatavari.
4. Name the family of Chitrak.
5. What is the medicinal use of castor oil ?
6. Name two drugs containing cardio active sterols.
7. Soya is a best source of ————————.
8. Name two umbeliferous fruits.
9. Name the alkaloid present in opium.
10. What are the anticancer alkaloids present in Vinca ?

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What are alcoholic glycosides ? Give examples.
12. Draw the diagram of root and label the parts.
13. What is Agar ? What is its use ?
14. Name the Vitamins present in shark liver oil.

Turn over

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15. What are Purines ? Name the constituents of Tea containing the Purine ring.
16. Explain Umbeliferone test.
17. Give two examples of pharmaceutical aids with its chemical nature.
18. Give the active constituents and use of vasaka.
19. Write about the modifications of stem.
20. Give the source and use of Pyrethrum.
21. Name a drug with antimalarial property. What are the alkaloids present in it ? Mention their uses.
22. What are Tannins ? Name two drugs containing it.

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 marks.

23. Classify alkaloids according to their properties.
24. Write a note on dispersal of fruit and seed.
25. Explain the function of leaf.
26. Explain the collection, preparation, chemical constituent and use of coca.
27. Explain the macro and microscopic characters of Nux vomica.
28. Describe the chemical constituent and pharmaceutical uses of :

    (a) Gokhru ; and (b) Shanka Puspi.

29. Differentiate the Pseudo, proto and true alkaloids.
30. Briefly describe the macroscopic and microscopic characters of Belladona.
31. Explain the morphology of Shatavari. Give the common vernacular names and marketed formulation of Chitrak.

(6 × 4 = 24 marks)

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Section D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the detection of adulteration in crude drugs by using chemical, biological and microscopic methods.

33. What are Glycosides ? Give the classification with examples. Discuss the nature of sugar and non-sugar present in them.

34. Discuss the macroscopy, microscopy, collection, chemical constituent and therapeutics uses of Rauwolfia.

35. Explain the following as traditional drug :

    (a) Methi ; (b) Neem ; and (c) Amla.

(2 × 15 = 30 marks)

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C 84099 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Pharmaceutical Chemistry

GEC 4MC 01—MEDICINAL CHEMISTRY—I

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is the international average time for a drug to be discovered ?
2. Meperidine was derived from ———————— lead.
3. Thiopental Sodium is an example of ————————.
4. Give two examples of antiepileptic drugs.
5. Write the use of Parathion.
6. Give the structure of Nicotine.
7. Clemastine belongs to ————————.
8. Name the antihistamine having anti-emetic action.
9. What is the primary site of action of thiazide diuretics in nephrone.
10. Name the most appropriate diuretic for treating acute pulmonary oedema.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is Bioisosterism ?
12. Write the structure of :—
    (a) Benzocaine ; and (b) Dyclonine.
13. What is Risperidone ?
14. Give the structure of :
    (a) Epinephrine ; and (b) Propanolol.
15. Write the structure and use of Cetrizine.

Turn over

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16. Write short note on Ethacrynic acid.
17. Give the mechanism of action of Spironolactone.
18. Discuss the effect of hydrogen bonding in drugs to their biological action.
19. What are Anxiolytics ? Give an example.
20. What is Dopamine ? What is its biological action ?
21. Give the structure and use of Omeperazole.
22. Name two diuretics used for treating hypertension.

(8 × 2 = 16 marks)

Section C (Short Essays Type)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Discuss Potassium-Sparing diuretics.
24. Write a note on carbonic anhydrase inhibitors.
25. Discuss H_2 receptor antagonists.
26. Write a note on Phenytolamine.
27. Give the synthesis of :—

    (a) Furosemide ; and (b) Mecamylamine hydrochloride.

28. Write a brief note on Carbachol.
29. Describe the various types of drug receptors in our body.
30. Write a note on lead optimization.
31. Give a note on Benzocaine.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain Anticonvulsants giving their classification, mechanism of action, structure activity relationship and write the synthesis of phenytoin.
33. What are Sympathomimetic agents ? *Name* the drugs used for asthma in this class. Write their mechanism of action and synthesis of any one drug with it's route of administration.
34. Briefly discuss about the conventional methods of Drug design.
35. Explain the stereochemistry of cholinergics. Discuss the use and mechanism of action of Physostigmine and Neostigmine.

(2 × 15 = 30 marks)

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C 84095 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Multimedia

SDC 4MM 14—ADVANCED TECHNIQUES IN GRAPHICS AND ANIMATION

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What does the Alt + W shortcut key do ?

   (a) Toggle sub- object selection.

   (b) Shows wireframe view.

   (c) Changes view style.

   (d) Maximizes the active view pot.

2. What is the shortcut for the material editors ?

   (a) T. (b) M.

   (c) Z. (d) X.

3. Short key of the move tool ?

   (a) Y. (b) W.

   (c) X. (d) Q.

4. ———————— is the animation key ?

   (a) Boolean. (b) Autokey.

   (c) Ctrl + x. (d) Alt + W.

5. Which animation technique uses a seamless transition to change one image into another ?

   (a) Morphing. (b) Tweening.

   (c) Motion blur. (d) Pose to.

Turn over

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6. For a simple light source with rays emitted uniformly in all directions from a single point in space use a ——————.

(a) Direct light. (b) Omnilight.

(c) Skylight. (d) Spotlight.

7. To quickly create some rough stones you can apply a —————— Modifier to geometry primitive.

(a) Wave. (b) Noise.

(c) Rough. (d) Fractal.

8. The three axes in 3Ds max are ——————.

(a) RSF. (b) TLF.

(c) UVW. (d) XYZ.

9. To quickly select all object I the scene you can use the keyboard shortcut ——————.

(a) Ctrl + S. (b) Ctrl + A.

(c) Ctrl + Shift + S. (d) Shift + A.

10. Rigid body and soft body are contained in —————— ?

(a) Reactor. (b) Standard primitive.

(c) Extended primitive. (d) None of the above.

(10 × 1 = 10 marks)

Part B (Brief Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 marks.

11. What is Lathe ?

12. What is meant by Unlink ?

13. What is meant by Link ?

14. What is Space Warp ?

15. What is a mirror tool ?

16. What is 3d modeling ?

17. What is the command panel ?

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18. Explain about Timing ?

19. Define Simulator.

20. Explain pose to pose animation ?

21. What do you mean by kinematics ?

22. What is Arc in animation ?

(8 × 2 = 16 marks)

Part C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is Texturing ?

24. Explain Rendering.

25. Explain 2D/ 3D graphic software.

26. Explain about curves.

27. Steps for making a house using shapes.

28. What is a symmetry modifier ?

29. What do you mean by character animation ?

30. Explain move, rotate, and scale ?

31. Explain linear and non-linear animation.

(6 × 4 = 24 marks)

Part D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain different types of animation software.

33. What are the types of light in 3ds max ? Explain.

34. Explain about storyboard and animation ?

35. Explain the factors which determine the quality of computer in animation.

(2 × 15 = 30 marks)

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C 84094 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Multimedia

SDC 4MM 13—PRODUCTION AND POSTPRODUCTION

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *the ten questions in one* **or** *two words.*
Each question carries 1 *mark.*

1. What is the term used to describe keeping specific elements the same throughout production ?

   a) Double check. b) Continuity.

   c) Shot list. d) Repetitive.

2. Which of these types of cuts is not generally regarded as a component of continuity editing ?

   a) The jump cut. b) The reverseangle cut.

   c) The match on action. d) The eyeline match.

3. ———— is used to compress images.

   a) MPEG b) JPEG.

   c) Both a) and b). d) None of the above.

4. ———— is the placement of object or subject with in a frame.

5. Which is the narrative turning point ?

6. ———— is repetition with variation.

   a) Rhythm. b) Contrast.

   c) Unity. d) Proportion.

7. ———— is dissimilarity between the elements brand on some criteria.

   a) Harmony. b) Balance.

   c) Proportion. d) Rhythm.

8. ———— lighting is used to avoiding dark area in the frame.

Turn over

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9. Which shot is also called overhead shot ?

10. Television and theatrical scripts usually end with the words ———— and ————.

(10 × 1 = 10 marks)

Part B

Write short notes on any **eight** *of the following.*
Each question carries 2 *marks.*

11. Briefly explain codec and type of codec.

12. Explain contrast.

13. What is additive color ?

14. What are the script formats ?

15. Explain 30 rule.

16. What are the six types of sound elements ?

17. Difference between scene and sequence.

18. What are the character's traits ?

19. What is non-diagetic element ?

20. What do you mean by embedding video ? Write with examples.

21. Name two video editing softwares.

22. What is the draft script ?

(8 × 2 = 16 marks)

Part C

Write short essays on any **six** *of the following.*
Each question carries 4 *marks.*

23. What do you mean by camera ? Explain different types of camera.

24. Explain color grading and color correction.

25. Explain continuity of action.

26. Define visual composition in cinema.

27. Explain confrontation (Act II).

28. What is resolution (Act III) ?

29. Write about stages of post-production.

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30. Explain chronological editing.

31. What is the educational documentaries ?

(6 × 4 = 24 marks)

Part D

Write essays on any **two** *of the following.*
Each question carries 15 *marks.*

32. Explain script of advertisement, fiction non-fiction.

33. Draw digital workflow and explain.

34. Explain DVD design and build.

35. Illustrate one script format of educational documentary.

(2 × 15 = 30 marks)

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C 84089 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Logistics Management

SDC 4LM 15—EXPORT AND IMPORT POLICIES AND PROCEDURES

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. WTO stands for ————————.
2. The main promoter of trade liberalization was ————————.
3. ———————— is the payment method most often used in international trade which offers the exporter best assurance of being paid for the products sold internationally.
4. ———————— is the first step in the internationalization process.
5. Quantitative restrictions refer to limit set by countries to curb ————————.
6. The world trade organization was formed in the year ———————— with GATT as it basis.
7. ———————— is an international financial institution
8. Interest payments on loans borrowed abroad are recorded in ———————— account.
9. ———————— and ———————— are called Bretton-wood Twin's.
10. UNCTAD Stands for ————————.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Describe the meaning of international trade ?
12. What is domestic business ?
13. What is import ?
14. What do you mean by international leasing ?
15. Explain contract manufacturing.

Turn over

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16. State the meaning of bilateral agreements.
17. What is TRIPS ?
18. What is free trade area ?
19. What is quality control ?
20. What is deemed exports ?
21. What is management contract ?
22. What is ICSID ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Briefly explain bilateral agreements ?
24. What is a multilateral agreement ?
25. Make a note on WTO.
26. Explain the features of international trade.
27. Explain the functions of Asian development bank.
28. State the objectives of IMF.
29. What are the Millennium development goals of World Bank ?
30. Explain the history and functions of Bank.
31. Explain the scope of international trade.

(6 × 4 = 24 marks)

Part D (Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write a note on international trade agreements.
33. Give a brief account of GATS. What are its basic principles ?
34. Write an essay on the objectives and activities of IMF.
35. Write a note on :

    (a) FMS ; (b) FPS ; (c) MDA ; and (d) DBK.

(2 × 15 = 30 marks)

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C 84088 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Logistics Management

SDC 4LM 14—INTERNATIONAL LOGISTICS MANAGEMENT

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Which of the following technology is used for routing a consignment?

   a) GPS. b) GPRS.

   c) Barcode. d) WIFI.

2. ———— is important because it facilitates trade, exchange and travel.

   a) Warehousing. b) Transportation.

   c) Logistics. d) International business.

3. Poor supply chain management practices can an otherwise excellent marketing strategy :

   a) Seriously damage. b) Make SWOT analysis difficult for.

   c) Keep people employed on. d) Mean quarterly lessons for.

4. What are the five basic transportation modes ?

   a) Air carrier, motor carrier pipelines, railways and water carriers.

   b) Air carrier, motor carrier, railways, ocean vessels and dirigibles.

   c) Air carrier, motor carrier, trucks, canals and robotics.

   d) Air carrier, motor carrier, water routes, railways and trucks.

5. PER special handling code of ———— Cargo.

6. Invoice is a ———— document.

   a) Statistical. b) Accounting.

   c) Credit. d) None of these.

Turn over

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7. For products with high level of uncertainty in demand, the following strategy is suitable :

   a) Use of a faster mode of transportation.

   b) Use of a slower mode of transportation.

   c) Keeping a higher amount of cycle stock.

   d) Use of a faster mode of transportation and higher amount of safety stock.

8. Technique in which the retailer does not process the order instead asks the manufacturer or wholesaler to ship the goods :

   a) Order passing. b) Drop passing.

   c) Buck passing. d) Drop shipping.

9. Unit load device (ULD) is used to load luggage, freight and mail on wide-body aircraft.

   a) True. b) False.

10. ———— refers to all non-labour expenses required to operate your business.

    a) Overhead. b) Fixed cost.

    c) Marginal cost. d) None of these.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 marks.

11. What is logistics management ?
12. What you mean by vessels ?
13. What is repacking ?
14. What is 4 PL ?
15. What you mean by road parcel service ?
16. What is bulk service ?
17. What is port management ? What is ocean linear conference system ?
18. What is documentation ?
19. What is railway freight ?
20. What is container terminal ?
21. What is Tramp service ?
22. What is ocean linear conference system ?

(8 × 2 = 16 marks)

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Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 marks.

23. Write a note on marine insurance of cargo.
24. What are the characteristics of vessels ?
25. Explain the issues involved in moment of goods.
26. Explain ocean liner conference system.
27. Explain the Classification of vehicles in road transport systems.
28. Write a note on marshalling operations and yards.
29. Explain the advantages of railway transport.
30. Explain different types of railway wagons.
31. Explain full truckload business.

(6 × 4 = 24 marks)

Part D (Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What is vessel ? Explain bulk service, Liner service and Tramp service.
33. Write a note on Inland water transport and issues in sea transport.
34. Explain the procedure for availing railway parcel or goods service and the documentations involved in rail transport systems
35. Write a note on FTL and LTL.

(2 × 15 = 30 marks)

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C 84087 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION APRIL 2020

(CUCBCSS—UG)

Logistics Management

SDC 4LM 13—SUPPLY CHAIN MANAGEMENT

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Which of the following does not belong to the function of logistics ?

   (a) Billing. (b) Order processing.

   (c) Manufacturing. (d) Marketing.

2. 3-PL stands for ————.

   (a) Three points logistics. (c) Three points location.

   (b) Third party logistics. (d) None of the above.

3. Transaction costs do not include :

   (a) Costs incurred because of loss of control.

   (b) Search and information costs.

   (c) Bargaining and contracting costs.

   (d) Costs incurred in control and coordination of internal supply.

4. Who is origin of FOB origin shipment ?

   (a) Carriers. (b) Buyers.

   (c) Sellers. (d) Third parties.

5. Reduction of inventory is a key objective of Logistics :

   (a) True.

   (b) False.

Turn over

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6. The main advantage of outsourcing is :

   (a) Reduce the cost. (b) Increase profitability.

   (c) Reduce cycle time. (d) All of the above.

7. Logistics aspect of a value delivery chain is ————.

   (a) Supply chain. (b) Direct store delivery.

   (c) Value orientation. (d) Inventory planning.

8. Which of the following does supply chain restructuring involve ?

   (a) Product design.

   (b) Process design.

   (c) Network design restructure.

   (d) All of these.

9. Supply chain network design decision pertaining to allocation of plants to market is :

   (a) A strategic decision. (b) A tactical decision.

   (c) An operational decision. (d) None of these.

10. CLP Stands for :

   (a) Container Load Plan. (b) Centralized Logistics Plan.

   (c) Container Leadership Plan. (d) None of these

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. What is outsourcing ?

12. What is integrated logistics management ?

13. What is IT ?

14. What is third part logistics ?

15. What is supplier quality management ?

16. What is a demand forecasting ?

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17. What is logistics management ?
18. What is compliance and auditing tools ?
19. What is warehouse management ?
20. What is cash flow in supply chain management ?
21. What is supply chain planning ?
22. What is inventory management ?

(8 × 2 = 16 marks)

Part C (Short Essay questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Briefly explain material flow and distribution in SCM.
24. Briefly explain Transportation management.
25. What are the major problems faced in Supply chain management ?
26. Explain the necessity of supply chain management.
27. Explain supply chain vulnerabilities in SCM.
28. Briefly explain the benefits and issues of local and international supply chain.
29. Briefly explain customer service management.
30. Write a note on impact of internet on SCM.
31. Explain the objectives of SCM

(6 × 4 = 24 marks)

Part D (Essay questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What is supply chain management ? Explain the types of supply chain management tools.
33. Write a note on SCM planning and development strategies.
34. What is CRM ? Explain the SWOT analysis of CRM.
35. Write a note on a. Outsourcing b. Global sourcing c. vendor identification.

(2 × 15 = 30 marks)

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C 84086 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Logistics Management

GEC 4ME 12—MANAGERIAL ECONOMICS

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. The study of entire economic system is called ————————.
2. Managerial economics bridges the gap between economic theory and ————————.
3. ———————— costs do not vary with the volume of production.
4. Product differentiation is one of the important characteristics of ————————.
5. Selling goods to another country at a price below the cost of production is known as ————————.
6. If prices only some goods and services rise, it is called ———————— inflation.
7. The demand curve facing a perfectly competitive firm is ———————— sloping.
8. Demand of luxury good is ————————.
9. Elastic demand is greater than ————————.
10. When a firm's average revenue is equal to its average cost, it gets ————————.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is consumer behaviour ?
12. What is elasticity of demand ?
13. Define managerial economics.
14. What is oligopoly ?
15. What is macro economics ?

Turn over

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16. What is Utility ?
17. What is penetrating pricing ?
18. What is demand curve ?
19. What is cardinal utility analysis ?
20. What is price skimming ?
21. What is inflation ?
22. What is demand forecasting ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain the properties of indifference curve.
24. Explain the role of managerial economist.
25. What is diminishing marginal utility ? Explain the assumptions of diminishing marginal utility.
26. Explain the factors governing prices.
27. Explain the basic characteristics of Indian economy.
28. What is Monopoly ? Explain the features of monopoly.
29. Briefly explain decision making in managerial economics.
30. Write a note on Demand curve.
31. Explain the role of cost in pricing.

(6 × 4 = 24 marks)

Part D (Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write a note on major issues faced by Indian economy.
33. What is pricing policies ? Explain different pricing methods.
34. Explain the relationship of managerial economics with other disciplines.
35. Explain the determinants of price elasticity of supply.

(2 × 15 = 30 marks)

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C 84085 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Jewellery Designing

SDC4 JD 14—GOLDSMITHING AND MANUFACTURING

Time : Three Hours Maximum : 80 Marks

Section A (Very Short/Objective Answer)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———— is a decorative technique that uses a black powder of copper, silver, lead, and sulphur to coat an engraved metal surface.
2. Blue gold is a combination of ———— metals.
3. Palladium white-gold alloys are called ————.
4. A technique in which a pattern is created in the metal backing before enamelling is ————.
5. The Latin name of gold is ————.
6. The logo on gold articles representing purity of the metal is known as ————.
7. What does the purity mark 916 denotes ?
8. Which Russian jeweller exhibited his Imperial Easter Eggs at the Paris exhibition of 1900 ?
9. What was the most precious metal for the people of the America in ancient times ?
10. Which was the earliest Asian culture to produce jewellery, approximately 5000 years ago ?

(10 × 1 = 10 marks)

Section B (Short Answer)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is Goldsmithing ?
12. What are the uses of a divider for a jewellery maker ?
13. What is a bench vice ?
14. Why do we anneal a metal before working on it ?
15. Why gemstones are faceted ?

Turn over

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16. What is the use of emery stick ?
17. What is champleve ?
18. Discuss the setting of faceted stones.
19. What is lapidary ?
20. Explain the use of ring sizer.
21. From where did the term "Hallmark" derived ?
22. Write short notes on Multi-element twist.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What are the different types of bending tools ?
24. What are the steps involved in soldering ?
25. How do you anneal thin wire ?
26. How do we solder a large piece of metal ?
27. Write a note on making silver balls.
28. What are the different types of punches ?
29. Write a note on RT blanking system.
30. Discuss rub-over settings.
31. Write a note on wax tree.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Discuss wire works in jewellery making.
33. Design a set of ornaments making use of different textures.
34. Discuss the steps involved in the manufacturing of hand-made jewellery.
35. Give a brief account on the origin of jewellery. What is the role of jewellery in modern India ?

(2 × 15 = 30 marks)

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C 84084 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Jewellery Designing

SDC 4 JD 13—DIAMOND GRADING AND SORTING

Time : Three Hours Maximum : 80 Marks

Section A (Very Short/Objective Answer)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. In 2000, De Beers altered its consumer advertising by ————.
2. Vast quantities of small, inexpensive diamonds suitable for low-cost, mass-market jewellery are mined in ————.
3. Which of the following is classified as an inclusion ?
   (a) Nick. (b) Chip.
   (c) Scratch. (d) Rough girdle.
4. A term used to describe any break within a diamond is :
   (a) Chip. (b) Bruise.
   (c) Feather. (d) Abrasion.
5. The South African diamond rush was sparked by ————.
6. As a diamond's pavilion gets deeper, its table reflection becomes ————.
7. Most synthetic gem-quality diamonds are ———— in colour.
8. A diamond's recut style is largely determined by ————.
9. The top part of the facets above the girdle is known as ————.
10. The chemical composition of diamond is ————.

(10 × 1 = 10 marks)

Turn over

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Section B (Short Answers)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Where in the earth's structure are the best conditions for diamond formation ?
12. What characteristics do most simulants have in common ?
13. What's the purpose of a diamond's culet ?
14. Write short notes on Specific Gravity of diamond.
15. What are lower girdle facets in R.B.C. ?
16. Differentiate between crown height and crown height percentage.
17. Distinguish between polish and finish.
18. What is meant by fire in diamond ?
19. What is 'culet in bezel 'pattern' ?
20. Write down the reason of 'dark radiating mains' pattern in diamond R.B.C.
21. What are the guide lines to give 'good' cut grade ?
22. Draw and mark the hill and valley of girdle.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Why are good quality diamonds so valuable ?
24. What happens to light when it strikes diamond ?
25. What are the special challenges of mining diamonds from ocean deposits ?
26. How do geologists locate diamond sources ?
27. What are the advantages and disadvantages of fracture filling ?
28. Write a short note on scintillation of diamond.
29. Write down the steps involved in measuring average girdle diameter of R.B.C. ?
30. Describe the relation between diamond cut grade and crown angle ?
31. Write a short note on girdle thickness variations.

(6 × 4 = 24 marks)

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C 84083 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Gemmology

SDC 4GM 14—PEARLS AND CULTURING OF PEARLS

Time : Three Hours Maximum : 80 Marks

Draw neat sketches wherever necessary.

Section A (Objective Type Questions)

Answer all **ten** *questions.*
Each question carries 1 *mark.*

1. Who wrote the Pearl Sac Theory ?
2. The Order of the family Pteridae is ————————.
3. The other name P. Margaritifera pearl oysters.
4. What is the average size of Akoya pearls ?
5. ———————— tool is used to remove dirt on the mantle strip and to smoothen the folds on it.
6. The surgical procedure upon which producing cultured pearl depends.
7. Shell of Mollusca is derived from :

   (a) Foot. (b) Mantle.

   (c) Ctenidium. (d) Placoid.
8. Keshi pearls are the trade name of ———————— pearls.
9. Which country is one of the most important sources of rose coloured pearls ?
10. Which of the following types of pearls is most likely to be rounded ?

    (a) A cultured South Sea pearl.

    (b) A natural South Sea pearl.

    (c) An Akoya pearl with very thin nacre.

    (d) An Akoya pearl with very thick nacre.

(10 × 1 = 10 marks)

Turn over

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Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is conditioning process ?
12. What is prismatic layer ?
13. What is Umbo ?
14. Write a note on Pediveliger stage.
15. What are Biwa Pearls ?
16. Differentiate between the Raft and Rack systems.
17. Write a short note on P. Penguin.
18. What is the use of Shell Speculum ?
19. What is pearl diving ?
20. Where can you find molluscs ?
21. Besides food, what products do molluscs produce ?
22. Is pearl farming bad for the environment ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Differentiate between Natural and Cultured pearls.
24. Write a note on the distribution of pearl oyster.
25. Describe the shell structure of oyster with the help of a neat diagram.
26. Describe the influence of Japanese Akoya cultured pearls in the market.
27. Write a note on Pearls and Pearl Jewellery in ancient and modern times.
28. Describe how pearls are formed.
29. Write a note on harmful Mollusca.
30. Write notes on : a) Tahitian Pearls ; and b) Akoya Pearls.
31. Discuss the importance of temperature for pearl culturing.

(6 × 4 = 24 marks)

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Section D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the marine water Pearl production.

33. Describe the benefits of pearl culture and the precautions to be taken to ensure success in pearl culture business.

34. Give an account of the size, shape and colour of pearls.

35. Discuss how I care for my cultured pearls and the do's and don'ts in pearl caring.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 84082 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Gemmology

SDC 4GM 13—ADVANCED GEMMOLOGY Paper–III

Time : Three Hours Maximum : 80 Marks

Draw neat sketches wherever necessary.

Section A (Objective Type Questions)

Answer all **ten** *questions.*
Each question carries 1 *mark.*

1. The birthstone of October.
2. Emerald is the birthstone of ———— month.
3. The birth day stone of Wednesday.
4. Turquoise is the birth day stone of the day ————.
5. A baby is born on June 22nd. What will be his zodiac sign ?
6. A baby's zodiac sign is Capricorn. What will be his zodiac stone ?
7. Name a man made compound of Silicon and Carbon.
8. Which type of saw is used for cutting curved lines ?
9. The finest intarsias and mosaics were traditionally of ———— origin.
10. Lapidary technique performed on one side of a rotating flat disk.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is a rough ?
12. What is the use of oil or water in sawing ?
13. What is trim saw ?
14. What is the application of belt sander ?

Turn over

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15. What is meant by a birthstone ?
16. What is meant by a polishing agent ?
17. Why is tumbling applied to gems ?
18. What is meant by dopping in lapidary works ?
19. What is a bead mill ?
20. Comment on the shapes of tumblers.
21. What types of stones are used in inlays ? Give two examples.
22. What is meant by diamond charged saws ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Describe sanding.
24. Differentiate between cameos and intaglios.
25. Give an account of the development of birthstone culture.
26. Differentiate between inlays and intarsias.
27. Comment on the hardness of the material of faceting.
28. Write a note on cabochons.
29. Describe the classes of work involved in lapidaries.
30. Distinguish between sculpture and intaglios.
31. Give details of different types of saws.

(6 × 4 = 24 marks)

Section D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are the birthstones of January, February and March ? Give their identification properties.
33. Name the birthstones of the zodiac signs Sagittarius, Scorpio and Aries and describe their identification properties.
34. Give the names of the birthstones of October, November and December. Describe their identification properties.
35. What are the birthstones of the zodiac signs Virgo, Aquarius and Gemini ? Give an account of their identification properties.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 84077 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Fish Processing Technology

SDC 4AQ 15—QUALITY CONTROL, INSPECTION AND CERTIFICATION IN SEA FOOD

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Expand SSOP.
2. Expand PSP.
3. The presentation side of a fish fillets is that side closest to the bone (True/False).
4. To maintain quality and ensure hygiene seafood should be defrosted in cold water (True/False).
5. Chilling injuries arising from the exposure of the products to a temperature.
   (a) Above the normal physiological range.
   (c) Under poor ventilation range.
   (b) Below the normal physiological range.
   (d) In CA storage.
6. A strong smell of ammonia coming from a green Mud Crab indicates :
   (a) The crab is getting old or is possibly dead.
   (b) A desirable quality point when purchasing.
   (c) The crab has been frozen.
   (d) Suggests it should be cleaned of dirt or mud.

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7. Examples of cross contaminations are :

   (a) Raw chicken is processed on cutting board the lettuce is sliced on same surface.

   (b) Food worker handles raw meat then assembles sandwich without washing hands.

   (c) Liquids from raw hamburger drip onto vegetables for salad.

   (d) All of the above.

8. The minimum time food workers should wash their hands is :

   (a) 5 seconds. (c) 30 seconds.

   (b) 20 seconds. (d) 40 seconds.

9. For simplicity and safety, all raw poultry, beef, fish and meat should be cooked to what minimum temperature :

   (a) 165 deg F (74 deg). (c) 212 deg F (100 deg).

   (b) 185 degF (85 deg). (d) None of the above.

10. Gram positive rod which causes food-borne infection :

   (a) *Bacillus cereus*. (c) *Listeria monocytogens*.

   (b) *Clostridium perfringens*. (d) *Staphylococcus aureus*.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*

Each question carries 2 marks.

11. Fish products should be free from bacteria Why ?

12. What are indicator organisms ?

13. Explain GMP.

14. What are mycotoxins ?

15. Explain the mode of action of chlorine.

16. Explain botulism.

17. Explain spoilage indices.

18. Explain codex alimentarius.

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19. Significance of *Listeria monocytogens*.
20. Explain cleaning schedule of seafood processing plant.
21. Importance of quality of ice.
22. Difference between quality control and quality assurance.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain about sensory methods for the quality evaluation of fish.
24. Describe the spoilage of canned products
25. Describe the intrinsic factors affecting the growth of microbes in food.
26. Explain the methods of detection of coliforms in water.
27. What are prerequisites programmes of HACCP ?
28. Chemical indices of fish quality.
29. Raw material check list in HACCP.
30. Explain the different types of hazards in seafoods with examples.
31. Raw material quality is very important in seafood, Why ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Describe the logical steps in HACCP implementation.
33. Give an account of bacteria of public health significance in seafood.
34. Differentiate between faecal coliforms and non-faecal coliforms. Describe the various methods of detection of total coliforms, faecal coliforms and *E. coli* in fish samples.
35. What are chemical hazards ? Explain the chemical hazards commonly seen in seafood and its control.

(2 × 15 = 30 marks)

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C 84076 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Fish Processing Technology

SDC 4AQ 14—FISHERY BY-PRODUCTS AND VALUE ADDITION

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Bacteria and yeast can ————————.
   a) Grow with or without air.
   b) Need humid / warm conditions to grow.
   c) Need more moisture than moulds.
   d) All the mentioned statements can be used to fill the blanks.
2. A by-product of shark ————————.
   a) Fin ray. b) Soup.
   c) Squalene. d) Fry.
3. Why is salt use to preserve fish ?
   a) It makes fish tastes good.
   b) It reduces moisture content to prevent growth of microbes.
   c) It promotes multiplication of beneficial microbes that prevent food spoilage.
   d) It increases moisture content and helps to prevent growth.
4. Fish liver oil is the source of ————————.
   a) Vitamin A. b) Vitamin B2.
   c) Vitamin D. d) Vitamin C.
5. ———————— is prepared from the air bladder of fishes.
   a) Fish oil. b) Fish meal.
   c) Isinglass. d) Fish glue.

Turn over

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6. Which of the following is a factor that affects the storage stability of food ?

   a) Type of raw material used.

   b) Quality of raw material used.

   c) Method/effectiveness of packaging.

   d) All of the mentioned.

7. As a thumb rule in the food industry, reducing the temperature of storage by 10°C increases the life of food item by twice and increasing by 10°C reduces by half.

   a) True. b) False.

8. Dry storage means at a temperature about ———— and humidity below ————.

   a) 20, 50%. b) 100, 50%.

   c) 20, 50-100%. d) 100, 50-100%.

9. Shelf life is the period between processing to retail purchase to consume the food product.

   a) True. b) False.

10. Which of the following sentence is true with respect to food storage/preservation ?

    a) Each food item has a potential storage life.

    b) The mechanical abuse that food has received during storage/ distribution does not affects its storage stability.

    c) All of the mentioned.

    d) None of the mentioned.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What are the uses of fish meal ?

12. Enzyme hydrolysis of fish.

13. Explain the packaging of fish meal.

14. Describe the wet rendering of fish meal.

15. What are the storage conditions of fish oil ?

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16. How is fish silage used ?
17. How long does FPC keep ?
18. Quality assessment of surimi.
19. Is FPC the same as fish flour ?
20. How is fish silage made ?
21. How FPC is a good protein source ?
22. How long does fish silage keep ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. How is fish silage made ? What acids can be used ?
24. Explain the method of preparation of chitosan.
25. Describe nutritional importance, quality requirements, packaging and storage of fish meal.
26. What is oil ? What are the types ? What is its nutritional importance ?
27. Explain the preparation of glucosamine hydrochloride.
28. Value added products from surimi.
29. What are the principal types of FPC ?
30. What are battered products ? Explain some of the products.
31. Explain the preparation of fish oil.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the utilization of shell fish waste.
33. Explain the production of chitosan from shrimp waste.
34. What is value addition ? Explain the value added products from seafood.
35. Explain the production and uses of fish surimi.

(2 × 15 = 30 marks)

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C 84075 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Fish Processing Technology

SDC 4AQ 13—ECONOMICS AND MARKETING IN SEAFOOD TRADE

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Which of the following is a central problem of every economy ?

   a) Abundance of resources.
   b) Scarcity of economic resources.
   c) Poverty.
   d) Moral and ethical values.

2. Equilibrium relates to which of these :

   a) Market condition which oscillate.
   b) Market state of falling price.
   c) Market condition of rising prices.
   d) Market conditions which once achieved tends to persist.

3. In a mixed economy which sector(s) is/are found :

   a) Private only.
   b) Public sector only.
   c) None.
   d) Both a) and b).

4. In economic theory the term "means" refers to :

   a) Resources.
   b) Arithmetic mean.
   c) A characteristic.
   d) None.

5. Market equilibrium of a commodity is determined by :

   a) Balancing of demand and supply position.
   b) Aggregate Demand.
   c) Aggregate supply.
   d) Government interventions.

Turn over

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6. Economic resources are :

   a) Unlimited.

   b) Limited in supply and use.

   c) Limited in supply but have alternative uses.

   d) Unproductive.

7. Which of the following is/are not an economic resource :

   a) Land. b) Capital.

   c) Labour. d) Air.

8. Capital in economics means :

   a) Factor of production.

   b) Fund brought in by the entrepreneur.

   c) Investment in shares, bank deposits.

   d) All the above.

9. Scarcity of resources leads to :

   a) Unsatisfaction of human wants.

   b) Evaluation of alternate use of scarce resources.

   c) Both.

   d) None.

10. Economics cannot be considered a perfect science because :

   a) Human behaviour is unpredictable.

   b) It is difficult to make correct prediction of economic variables.

   c) Economics do not have common opinion about a particular economic event.

   d) All the three.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Law of returns.

12. Market segmentation.

13. Cost benefit analysis.

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14. What is SMEY ?
15. Law of diminishing marginal utility.
16. Explain the structure of fish markets.
17. What is econometrics ?
18. Perfect competition.
19. Profit maximisation and revenue maximisation.
20. Net Present Value.
21. Law of supply.
22. Adverse selection.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Price spreads in fish marketing.
24. What is meant by cost benefit analysis ?
25. What are the principles applied in price determination in fish marketing ?
26. Explain the types of markets and describe the structure of fish markets.
27. What are the reasons for down ward slope of demand curve ?
28. What are the discounting methods ?
29. Explain structure of fish markets and discuss constraints in fish marketing.
30. What is MSY ? How it differs from SMEY ?
31. Define rate of return. How do you calculate rate of return.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Describe nature and scope of managerial economics. How does it contribute to business decision-making ?
33. Explain the basic concepts of economics.
34. Describe different methods of economic analysis of business organisations.
35. Discuss pricing strategies in fish marketing.

(2 × 15 = 30 marks)

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C 84074 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Fish Processing Technology

GEC 4FPD 04—FOOD PRODUCT DEVELOPMENT AND ANALYSIS

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. A detailed version of a new idea stated in meaningful customer terms is called a :
   (a) Product idea. (b) Product movement.
   (c) Product concept. (d) Product proposal.
   (e) Product image.

2. After concept testing, a firm would engage in which stage in developing and marketing a new product ?
   (a) Business analysis. (b) Test marketing.
   (c) Product development. (d) Idea screening.
   (e) Marketing strategy development.

3. In the ——— stage of new-product development, products often undergo rigorous tests to make sure that they perform safely and effectively or that consumers will find value in them :
   (a) Idea generation. (b) Product development.
   (c) Business analysis. (d) Marketing mix.
   (e) Concept development and testing.

4. The major purpose of test marketing is to provide management with the information needed to make final decision about ———.
   (a) How to compete in the market
   (b) How long to compete in the market.
   (c) Which market to compete in.
   (d) How to develop a market strategy.
   (e) Whether to launch the new product.

Turn over

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5. Which of the following cannot be described by the PLC concept ?

   (a) Brand. (b) Product form.

   (c) Styles. (d) Product class.

   (e) Product image.

6. Which of the following costs is most likely associated with the commercialization stage of new product development ?

   (a) Identifying target markets.

   (b) Paying groups of target consumers for product feedback.

   (c) Developing a prototype of the product.

   (d) Building or renting a manufacturing facility.

   (e) Determining the product's planned price, distribution, and marketing budget.

7. Which of the following best determines the suggested selling price of a product ?

   (a) The break-even point.

   (b) Cost and availability of raw materials.

   (c) Predicted price consumers are prepared to pay.

   (d) Recovery of production costs with no profit margin.

8. A company is working through the food product development process for a new food When is the prototype developed ?

   (a) During idea generation.

   (b) Before market research.

   (c) At product testing stage.

   (d) After production process development.

9. In which of the following type the manufacturing cost may go up :

   (a) Standardization. (b) Simplification.

   (c) Diversification. (d) All of the above.

10. ——— is a period of market acceptance and increasing profits.

   (a) Product development. (b) Maturity.

   (c) Growth. (d) Introduction.

(10 × 1 = 10 marks)

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Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What do you mean by the term "Product" ?
12. What is meant by generic product, core product, expected product and augmented product ?
13. Describe the product classification of consumer products.
14. Explain the relationship between competition management and product management.
15. What are the major bottle necks in new product development ?
16. What is screening in product development process and its objectives ?
17. What is branding ? Explain benefits of branding to :
    (a) Manufacturer. (b) Customers.
18. Briefly explain the concept of product life cycle.
19. Explain the concept of product management along with its importance.
20. What is marketing management and its objectives ?
21. What do you mean by product management ? Why it is needed also discuss its various aspects ?
22. Explain the reasons for product failure.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain :
    (a) Generic product.
    (b) Core product.
    (c) Expected product.
    (d) Augmented product.
24. Define a product also discuss its components and types.
25. Differentiate between consumer products and industrial products.
26. Discuss the factors influencing the product line decision.
27. What are the limitations of test marketing ?
28. Explain benefits of branding.

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29. Discuss the steps involved in the economic analysis of a new product concept.

30. Discuss the concept of product life cycle (PLC). Comment on PLC as an aid to new product development planning strategies.

31. Discuss the role of research and development department in developing a new product.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are the steps involved in product development ?

33. Explain the sensory evaluation of foods.

34. What are the reasons for New Food Product Development ?

35. Explain the factors to be considered in the food product development.

(2 × 15 = 30 marks)

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C 84073

(Pages : 3)

Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Fish Processing Technology

GEC 4FB 04—FOOD BIOTECHNOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Fermentation is :
   a) An aerobic process of converting sugars into alcohols or acids and carbon dioxide.
   b) An anaerobic process of converting sugars into alcohols or acids and carbon dioxide.
   c) An anaerobic process of converting sugars into alcohol or acids and oxygen.
   d) An aerobic process of converting sugars into alcohols or acids and oxygen.
2. Name two important microbes in food processing operations.
3. Give the scientific name of Electric ray.
4. An enzyme which is devoid of its either prosthetic group or coenzyme is designated as :
   a) Holoenzyme. b) Apoenzyme.
   c) Substrate. d) Coenzyme.
5. Which one of the following is commonly used in transfer of foreign DNA into crop plants ?
   a) *Penicilliumexpansum.* b) *Trichodermaharzianum.*
   c) *Meloidogyne incognita.* d) *Agrobacterium tumefaciens.*
6. PCR proceeds in three distinct steps governed by temperature. They are in the order of :
   a) Annealing, extension, denaturation.
   b) Extension, annealing, denaturation.
   c) Denaturation, annealing, extension.
   d) Denaturation, extension, annealing.

Turn over

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7. Which of the following is supplemented with Vitamin A in order to improve its nutritional quality ?

   a) Cotton. b) Potato.

   c) Tomato. d) Rice.

8. Which of the following carbohydrates are mainly present in whey ?

   a) Glucose. b) Fructose.

   c) Sucrose. d) Lactose.

9. What is the nature of an enzyme ?

   a) Vitamin. b) Carbohydrate.

   c) Protein. d) Lipid.

10. Name the enzyme which catalyzes the oxidation reduction reaction :

    a) Transaminase. b) Glutamine synthetase.

    c) Phospho fructokinase. d) Oxidoreductase.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What are restriction enzymes ?
12. What is the importance of yeast in food processing ?
13. What do you mean by the term "single cell protein" ?
14. Discuss the kinetics of lactic acid production.
15. What is HPLC ?
16. What are the food additives of fermentation origin ?
17. What are the main enzymes used in the processing of starch ?
18. Explain the characteristics of an operon.
19. What is the difference between fungi, yeast and mold ?
20. Explain the application of recombinant DNA technology in environmental protection.

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21. Explain production of any *one* of biopreservatives.

22. What is meant by tissue culture ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Discuss the use of lactic acid bacteria in different food system.

24. Discuss the applications of modern biotechnology in food processing.

25. Briefly explain the process of gene cloning.

26. Give a neat diagram of a typical system of HPLC. Describe the functions of various parts of HPLC.

27. How will you measure the degree of hydrolysis of proteins ?

28. Describe the composition of a DNA molecule.

29. Explain different types of mutation.

30. Briefly explain how biopreservatives are different from antibiotics.

31. Write down the prospects of SCP in the food chain. What are the barriers for acceptance of SCP in food ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain fermentation technology and its applications in food processing.

33. Describe the production of different enzymes used in biotechnology and the application of these enzymes in food processing.

34. Describe :

    a) Use of nanoparticles for delivery of bioactive constituents.

    b) Nanoencapsulation.

    c) Nanopackaging.

    d) nanosensors for detection of pesticides and pathogens.

35. Explain ethical concerns, safety and regulatory issues of biotechnological products.

(2 × 15 = 30 marks)

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C 84072 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Fashion Technology

SDC 4FT 16—ENVIRONMENTAL TEXTILES

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. The decentralised power looms/ hosiery and knitting sector form the largest component of the ———— sector.

   a) Textiles. b) Bag.

   c) Foot wear. d) Food.

2. ———— programs will increase demand for environmentally preferable products, and will change resource allocation so as to protect the environment.

   a) Eco labeling. b) Stickers.

   c) Posters. d) Brochures.

3. An ———— identifies products or services proven environmentally preferable overall.

   a) Eco label. b) Stickers.

   c) Posters. d) Brochures.

4. Coloured cotton was launched by ————.

   a) Angel Sanchez. b) Isaac newton.

   c) Galileo. d) Robert hook.

5. First transgenic plant commercially adopted around the world is ————.

   a) Transgenic cotton. b) Transgenic silk.

   c) Transgenic linen. d) Transgenic wool.

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6. ———— defined as the application of living organisms and their components to industrial products.

a) Textile technology. b) Industrial technology.

c) Biotechnology. d) Fabric technology.

7. ———— is a polyester fiber made from 100% recycled plastic bottles.

a) Fortel ecospun. b) Bacterial cellulose.

c) Spider silk. d) Corn fiber.

8. Pina fiber is extracted from :

a) Leaves. b) Stems.

c) Barks. d) None of the above.

9. ———— refers to the exploitation of children through any form of work that deprives children of their childhood.

a) Child labour. b) Children's park.

c) Kid's activities. d) Nursery.

10. The textile ———— process is characterised by the high consumption of resources like water, fuel and a variety of chemicals in a long process sequence that generates a significant amount of waste.

a) Manufacturing. b) Design.

c) Checking. d) Testing.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What initiated the Indian textile exporting ?

12. Which was the main item for trade in the initial days ?

13. What is gaseous pollution ?

14. Which are the environmental hazards caused by the area of dyeing ?

15. What is hemp fiber ?

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16. What are the applications of banana fiber ?
17. What is an enzyme ?
18. What is the application of ISO 14023 ?
19. What are bio fabrics ?
20. Write about the Effluent Treatment Plant briefly.
21. What are the various eco labelling schemes ?
22. What is BT cotton ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What are environmental impacts of the textile processing ?
24. What is child labour ? explain briefly.
25. What are the limitations of organic cotton ?
26. Briefly explain the steps required for pineapple fibers processing in textiles ?
27. Explain the process of making transgenic cotton.
28. Explain the international scenario of eco labelling briefly.
29. What are the various eco factors, explain briefly ?
30. Explain the role of cotton In the Indian textile industry.
31. Which are the various fields in which eco-labelling is applied ?

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are the various eco-friendly products and explain the different types of eco labels ?
33. Explain the ethical issues in the textile industry in detail.
34. Explain different kinds of eco-friendly fibers.
35. Explain the role of bio technology in textile industry in detail.

(2 × 15 = 30 marks)

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C 84071 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Fashion Technology

SDC 4FT 15—APPAREL PRODUCTION AND QUALITY CONTROL

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———— is a process of separating the garment parts from the fabric lay in precise and shape.

   (a) Sewing. (b) Cutting.

   (c) Spreading. (d) Marking.

2. ———— is a diagram of a precise arrangement of pattern pieces for sizes of a specific style.

   (a) Marker. (b) Swatches.

   (c) Patches. (d) None of these.

3. Draping is a method of ————.

   (a) Inspection. (b) Pattern making.

   (c) Drafting. (d) None of these.

4. ———— software assists the pattern development and marker making.

   (a) CIF (b) CIM.

   (c) CAD. (d) CMT.

5. What does QA and QC stands for ?

   (a) Quality Assurance and Queuing Control.

   (b) Quality Adjustment and Quality Completion.

   (c) Quality Assurance and Quality Control.

   (d) Quality Adjustment and Queuing Control.

Turn over

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6. What is the first step in the quality control ?

   (a) To take corrective action when standards have not been met.

   (b) To collect data to determine whether standards have been met.

   (c) To determine criteria and standards.

   (d) To determine who will measure the standard.

7. Which among the following is a non-technical test for fiber identification ?

   (a) Microscopic test. (b) Chemical test.

   (c) Burning test. (d) Twist on drying.

8. Choose the correct direction of yarn twist :

   (a) S and Y. (b) S and Z.

   (c) Z and Y. (d) S and W.

9. ISO was formed in which year ?

   (a) 1955. (b) 1947.

   (c) 1950. (d) 1945.

10. ———— is the first global and voluntary ethical standard about corporate social responsibility.

   (a) SA 8000. (b) WRAP.

   (c) TQM. (d) ISO.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*

Each question carries 2 marks.

11. List out the standard elements of SA 8000 ?

12. Define WRAP ?

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13. What are the quality parameters of knitted fabric ?
14. What are the types of inspection ?
15. What is yarn ?
16. What are ASTM standards for textiles ?
17. What are the tools of quality control ?
18. What is ticketing ?
19. What is marker making ?
20. Define time study.
21. List out the departments in an apparel industry.
22. What are the basic techniques of industrial engineering ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*

Each question carries 4 marks.

23. Explain apparel merchandising.
24. Explain the methods of pattern making.
25. Explain the difference between straight knife and round knife cutting machines.
26. Write a short note on standards.
27. Explain Acceptable Quality Level.
28. Explain the principle of ISO.
29. Describe the benefits of ISO certification.
30. Explain the different fibre tests for identification.
31. Explain the certification levels in WRAP.

(6 × 4 = 24 marks)

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C 84070 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Digital Film Production

DFC 4FP 15—MULTI-CAM PRODUCTION

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is light meter ?
2. What is 2k resolution ?
3. What is fill light ?
4. What is a video switcher ?
5. What is line monitor ?
6. Expand MLS.
7. What is high Angle ?
8. What is a shot ?
9. What is VTR ?
10. What is HDMI ?

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is three point lighting ?
12. What is multi cam shoots ?
13. Various camera movements.
14. Signature tune.

Turn over

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15. Use of tracking and crane shot.
16. What is depth of field.
17. Difference between indoor and outdoor shooting.
18. Depth of field *vs* depth of focus.
19. Different camera angles.
20. Use of various images in shooting.
21. What is deep focus and shallow focus ?
22. Factors affecting depth of field.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions*
Each question carries 4 *marks.*

23. Difference between indoor and outdoor shooting.
24. What is the use of ISO, Shutter speed and aperture ?
25. What are the mounting equipment's ?
26. Explain various lighting systems.
27. Difference between aerial and bird angle shot.
28. Candid shots are now in vogue - explain.
29. Describe the planning and management of a live show.
30. Some shots get meaning when juxtaposed with another shot, comment.
31. Explain the development of various cameras used in films.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Draw a storyboard of any 5 shot.
33. Discuss various types of filters and their uses.
34. Lighting up a scene defines the skill of a cinematographer, Elaborate ?
35. Comment on the work of any famous cameraman in Malayalam films.

(2 × 15 = 30 marks)

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C 84069 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Digital Film Production

DFC 4FP 14—INTRODUCTION TO SOUND DESIGN

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is the difference between music and sound ?
2. Define Noise.
3. Define Audio.
4. Define Rhythm.
5. Define Amplitude.
6. Define wavelength.
7. Explain the working principle of a speaker.
8. Give five examples of various sound file extensions.
9. Define pitch.
10. Define Bass.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Write short note on Microphone.
12. What are sound effects, give two examples ?
13. What is audio equalization ?
14. What is interference ?
15. What is wild track ?

Turn over

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16. Functions of sound mixer.
17. What is the frequency range of sound ?
18. What are the sound characteristics.
19. Explain anti-aliasing.
20. Basic sound reproducing system.
21. Define relationship between Bass and frequency.
22. Write short note on audio wave propagation.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain different types of audio editing tools.
24. What are the different types of audio filters.
25. Basic function of studio and console.
26. Give a detailed note on analogue audio cables.
27. Explain the importance of audio in films.
28. What is sound sensitivity ?
29. Explain sound wave fundamentals ?
30. What are boom microphones ? Explain the importance of boom mics ?
31. Explain importance of acoustic treatment in an audio recording studio ?

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Give a detailed note on location sound recording.
33. What are sound fx and its application in film industry ?
34. Explain the work of sound engineers in films.
35. Give a detailed picture of inside consoles of a sound recording studio.

(2 × 15 = 30 marks)

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C 84068 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Digital Film Production

DFC 4FP 13—ADVANCED VISUAL EDITING

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is timeline ?
2. What is mixing ?
3. What is continuity ?
4. What is a jump cut ?
5. What is footage ?
6. What is transition ?
7. What is rendering ?
8. What is rule of thirds ?
9. What is non-linear editing ?
10. What is image sequence ?

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What are the principles of editing ?
12. Explain the rules for editing.
13. Write about any two editing softwares.
14. What is the difference between interlaced and progressive scanning ?
15. What is constructive editing ?
16. Write about the editing techniques of Hitchcock.
17. How will you edit an interview ?

Turn over

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18. Write about the montage principles by Sergi Einsenstein.
19. What is Kulshev Effect ?
20. Write about NTSC and PAL.
21. Write the difference between linear and non linear editing.
22. What is directors cut and editors cut ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is the use of transitions in editing ?
24. What are the various types effects used in editing ?
25. Explain the 7 rules of editing.
26. Elaborate cut, dissolve, jump cut and match cut.
27. What is the difference between parallel action and simultaneity ?
28. Write about your favourite editor.
29. What is the importance of a shooting script ?
30. What are the latest trends in digital editing ?
31. Does editing effect the outcome of a movie - justify.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are the fundamental elements of a good edit ?
33. Write on Soviet Montage principle.
34. Digital Editing have made the filmmaking easier. Explain.
35. Analyse any recent movie in term of editing quality with examples.

(2 × 15 = 30 marks)

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C 84067 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Broadcasting and Journalism

SDC 4BJ 14—MULTIMEDIA ANIMATION AND MOTION GRAPHICS

Time : Three Hours Maximum : 80 Marks

Section A (Objective Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. GUI Stands for :
   (a) Graphic User Interchange. (b) Graphic User Interface.
   (c) Graphics User Instrument. (d) Graphic User Integration.
2. The word Animate came from the Latin word :
   (a) Animare. (b) Anome.
   (c) Aneme. (d) Animto.
3. Adobe Dreamweaver is used for :
   (a) Graphic Design. (b) Web Design.
   (c) Video Editing. (d) Animation.
4. Which of the following application is most effective for motion title graphics ?
   (a) Adobe Premiere Pro. (b) Adobe Photoshop.
   (c) Adobe Illustrator. (d) Adobe After Effects.
5. State whether True *or* False : Adobe Illustrator is vector based software.
6. Pick the odd one out :
   (a) Interactive TV. (b) HD TV.
   (c) Video Game. (d) Virtual Reality.
7. Who define multimedia as any combination of text, graphicart, sound, animation and video that is delivered by computer or other electronic means ?
   (a) Tay Vaughan. (b) Bob Goldstein.
   (c) Mark Zuckerberg. (d) None of the above.

Turn over

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8. ADC stands for :

   (a) Analogue-to-digital conversion.
   (b) Analogue-to-direct conversion.
   (c) American Digital Company.
   (d) Asian Digital Company.

9. Science of colour is called as :

   (a) Acoustics.
   (b) Kinetics.
   (c) Kinesis.
   (d) Chromatics.

10. JPEG stands for :

   (a) Joint Press Experts Group.
   (b) Joint Photographic Experts Group.
   (c) Journalist and Photographers Expert Group.
   (d) None of these.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Multimedia Application.
12. Adobe Dreamweaver.
13. 3D Animation.
14. Storyboard.
15. Vector Image.
16. CMYK.
17. Light Sweep Effect.
18. Full HD Video.
19. Aspect Ratio.
20. File Compression.
21. Object Tracking.
22. Virtual Reality.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Differentiate between page based and icon based multimedia authoring tools.

24. Briefly describe different software of your choice used in the industry for graphic design, audio editing, video editing, 2D and 3D animation.

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25. What is meant bymultimedia authoring tools ? Provide examples for different types of multimedia authoring tools.

26. What is meant by interactivity of a website ? How does multimedia content help interactivity of a website ?

27 Compare the possibilities of image editing in Adobe Photoshop and Adobe Illustrator ?

28 Prepare a flowchart detailing the steps in multimedia production.

29 What is SEO ? How images are optimized for web ?

30 Prepare a note on different audio recording and editing software which can be used in multimedia productions.

31 Compare between MOV and MP4 video formats terms of their quality, features and uses.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32 Social media is becoming more popular these days. Analyse how story telling on social media by individuals can be more effective with the use of multimedia tools and techniques.

33 Text was the only tool for websites in the past, but now-a-days websites are filled with audio visual media and graphic contents. Explain how multimedia helped improving the quality of websites.

34 Media and education are the two fields multimedia technologies mostly contributed to. Discuss how effectively multimedia can assist Media and Education fields. Provide examples.

35 Graphic User Interface and Instructional Design are two sides of a coin. Discuss in detail the equal importance of appearance and navigation for a mobile application. State examples.

(2 × 15 = 30 marks)

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C 84066 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Broadcasting and Journalism

SDC 4BJ 13—TELEVISION BROADCASTING

Time : Three Hours Maximum : 80 Marks

Section A (Objective Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. PCR stands for ————————.

2. Pick the odd one out :

   (a) *Chodyam Utharam.* (b) *Nere Chovve.*

   (c) *Point Blank.* (d) *Nerkkuner.*

3. Crossfade is a/an :

   (a) Video effect. (b) Video Transition.

   (c) Colour Correction. (d) None of the above.

4 OB stands for :

   (a) Outside Broadcast. (b) Outdoor Broadcast.

   (c) Outdoor Bite. (d) Outdoor Programme.

5. State whether True *or* False : Infotainment channels don't air News Bulletins.

6. Pick the odd one out :

   (a) Anchor Link. (b) Headline.

   (c) Slug. (d) PTC.

7. The schedule/order of the news stories in a news bulletin is called :

   (a) News Reel. (b) Rundown.

   (c) News Schedule. (d) News List.

Turn over

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8. SOT stands for :

(a) Sound on Television. (b) Sound on Tape.

(c) Scene on Television. (d) Selected on Tape.

9. A television news show starts with :

(a) News Story. (b) Anchoring.

(c) Graphics. (d) None of the above.

10. News rundown is prepared based on :

(a) Length of the story. (b) Relevance of the story.

(c) Format of the story. (d) None of the above.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Entertainment Channel
12. Television News Bureau
13. Aspect Ratio.
14. NTSC.
15. DSNG.
16. HDTV.
17. PAL
18. Rundown.
19. Barkha Dutt
20. NDTV.
21. Development Communication Programmes.
22. Chroma Key

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Compare among Local, Regional and National television channels with examples.
24. What are the essential qualities of a Broadcast Journalist ?
25. What are the elements of a television News package ? How does a package story differ from other types of stories ?

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26. Compare Exclusive and Investigative stories with examples.

27. How many cameras can be used to make a live newscast more effective ? Explain the role of camera unit during a live newscast.

28. News anchor should also be a good journalist– Justify the statement.

29. Who is your favourite news anchor in Malayalam Television ? Explain the qualities you found on him/her during the news presentation.

30. What is meant by Virtual Studio ? How virtual studios can be more effective in conveying the statistical content of a news story ?

31. Content aired over television is more credible that that shared over social media platforms–Comment and justify your answer.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32 Imagine yourself being a news bulletin producer, list down the process of producing a news bulletin with stories from different bureaus. Explain the steps involved in the production beginning from news collection from bureau till the final telecast being live.

33 Which are the different categories of television channels based on content, transmission and coverage ? Explain with examples.

34 Impact of social media has affected the growth of Television News industry in India. Examine the statement and justify your opinion.What are the challenges being faced by Television industry with the advent of new media and internet ?

35 Lighting is a powerful tool in television production which can contribute to the effective conveying of the content. Elaborate the statement detailing different types of lighting techniques used for television production.

(2 × 15 = 30 marks)

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C 84065 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Broadcasting and Journalism

GEC 4AP 11—ADVERTISING AND PUBLIC RELATIONS

Time : Three Hours Maximum : 80 Marks

Section A (Objective Type Questions) [1 Mark]

Answer **all** *questions.*
Each question carries 1 *mark.*

1 A specific co-ordinated advertising effort on behalf of a particular product or service that extends for a specified period of time

(a) Campaign. (b) Trial.

(c) Marketing. (d) Commercial

2. AAAJ represents ————.

(a) American Agency for Advertisers Information.

(b) Advertising Agencies Association of India.

(c) Association of Advertising Agencies in India.

(d) Indian Association of Advertising Agencies.

3. The word advertising came from the Latin word 'advertere' which means ————.

(a) To turn the mind toward.

(b) To persuade.

(c) To react.

(d) To turn away.

4. Advertisements appear in vehicles and trains are known as :

(a) Indoor Advertising. (b) Transit Advertising.

(c) Professional Advertising. (d) National Advertising.

5. Which of the following is not a part of marketing mix ?

(a) Product. (b) Price.

(c) Promotion. (d) Pedigree.

Turn over

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6. What is the full form of ABC ?

   (a) Argentina Broadcasting Corporation.

   (b) Audit Bureau of Circulation.

   (c) Australian Business Corporation.

   (d) None of the above

7. "Just Do It" is the tagline of ————.

   (a) Nike. (b) Adidas.

   (c) Puma. (d) Reebok.

8. The process of purchasing space in a media is :

   (a) Media Spacing. (b) Media Scheduling.

   (c) Media Purchasing. (d) Media Buying.

9. If a company wants to build a good "corporate image," it will probably use which of the following marketing communications mix tools ?

   (a) Advertising. (b) Public relations.

   (c) Direct marketing. (d) Sales promotion.

10. An advertising message usually focuses on :

   (a) The models in the ad.

   (b) Advantages of the product over competing ones.

   (c) Availability of the product.

   (d) Key benefits of the product that are important to the buyer.

(10 × 1 = 10 marks)

Section B (Short Answer Questions) (2 Marks)

Answer any **eight** *questions.*
Each question carries 2 marks.

11. Brand Image.

12. Product Positioning.

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13. Product Research.

14. Market Analysis.

15. Celebrity Endorsement.

16 DAVP.

17 PRSI.

18 Expository copy.

19 Slogan.

20 Advertorial.

21 ASCI.

22 USP.

(8 × 2 = 16 marks)

Section C (Short Essays) [4 Marks]

Answer any **six** *questions.*

Each question carries 4 *marks.*

23. Differentiate between Advertising and Public Relation.

24. Explain the five P's in integrated marketing ?

25. What are the functions of advertising ?

26. Write down various advertising media and their effectiveness.

27. Differentiate between Covert Advertising and Surrogate Advertising.

28. Discuss how Exhibitions and Trade Fairs are effective tools of Public Relations.

29. Discuss the importance of the feedback mechanism in PR.

30. Every public relations officer is primarily a Journalist". Discuss.

31. What are the salient features of internet advertisements ?

(6 × 4 = 24 marks)

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Section D (Essays) [15 Marks]

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the basic concept of advertising? What are the important classifications of advertising ?

33. Critically examine an ad each from the print, radio and television and give your comments on their effectiveness ?

34. What is a PR Campaign ? Discuss various stages in PR campaign.

35. Explain code of ethics for Public Relations professionals.

(2 × 15 = 30 marks)

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C 84064 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Broadcast Journalism

SDC 4BJ 15—MULTIMEDIA PRODUCTION

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

Choose the Correct Answer :

1. The term ———— was first coined by Bob Goldstein to promote the July 1966 opening of his "Light Works at L'Oursin" show at Southampton, Long Island.

   (a) Mass media. (b) New media.

   (c) Rival media. (d) Multimedia.

2. Which of the following is an example of a multimedia application ?

   (a) Interactive TV. (b) Computer Games.

   (c) Virtual reality. (d) All of these.

3. ———— was a streaming media technology developed by Microsoft to replace Video for Windows (now known as Direct Show).

   (a) iMove. (b) Active Movie.

   (c) FLV. (d) YouTube.

4. The word pixel is based on a contraction of "pix" and "el" which means ———— and ———— ?

   (a) Pictures and element. (b) Photos and element.

   (c) Pictures and unit. (d) All of the above.

5. The science of colour is known as ————.

   (a) Acoustics. (b) Kinesis.

   (c) Chromatics. (d) Kinetics

Turn over

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6. A collection of characters of a single size and style belonging to a particular typeface family is known as ———.

   (a) Font. (b) Character.

   (c) Typeface. (d) Style.

7. ——— is a communication standard developed for electronic musical instruments and computers.

   (a) MIDI. (b) MP 3.

   (c) MP 4. (d) Vorbis.

8. Which of the following countries use the PAL system ?

   (a) United Kingdom. (b) Europe.

   (c) Australia. (d) All of the above.

9. Generation loss is the most minimal in ———.

   (a) Non-linear editing. (b) Transferring.

   (c) Linear editing. (d) Assemble editing.

10. The "Layers" in Photoshop are ———.

   (a) Filters that have been applied to the image.

   (b) Images stacked on top of each other.

   (c) Color components.

   (d) Previous versions of an image.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*

All questions carry equal marks.

Write short notes on :

11. RGB.

12. JPEG.

13. Aspect.

14. Raster.

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15. Design Template.
16. Pen tool.
17. Image matting.
18. FCP.
19. Avid Media Composer.
20. SEO.
21. MPEG-4.
22. Image filters.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*

Each question carries 4 *marks.*

Write short essay on :

23. What is a multimedia application ? Explain with suitable examples.
24. What are the basic elements of designing ?
25. Differentiate between vector and raster image formats.
26. What is meant by interactive website ?
27. How does the colour combination used in a website affect the interactivity ?
28. Differentiate between Audition and Sound booth ?
29. What is navigation in terms of designing ? How does it improve interactivity ?
30. What is Adobe Flash ? Provide certain occasions where flash is used.
31. What is meant by interactivity ? How can the interactivity of a multi-media application be increased in terms of designing ?

(6 × 4 = 24 marks)

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Section D

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Aesthetics gets first preference than knowing the software in designing. Explain the importance of creativity in graphic designing.

33. What all are the things to be kept in mind while preparing content and designs for print and web ?

34. What is the role of multimedia in the field of media ? Elaborate your answer with suitable examples.

35. What is instructional designing ? How effectively it is used in the field of education ?

(2 × 15 = 30 marks)

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C 84063 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Broadcast Journalism

SDC 4BJ 14—ADVANCED VISUAL EDITING

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

Choose the Correct Answer :—

1. Pick the odd one out :
   a) FCP. b) Adobe Premier Pro.
   c) Avid Media Composer. d) Avid Pro tools.
2. Pick the odd one out :
   a) MP4. b) FLV.
   c) MOV. d) WAV.
3. In video editing, BGM is inserted :
   a) Once the video track is finalized.
   b) Once the Editing process is done.
   c) Once the exporting is clone.
   d) Before the visuals inserted.
4. Raw source footages are :
   a) Heavier than output. b) Lighter than output.
   c) Same as output. d) Variable.
5. Black and white is a/an :
   a) Colour correction tool. b) Video Effect.
   c) Video transition. d) None of the above.

Turn over

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6. Colour correction presets are :

a) Editing Tools. b) Video Effects.

c) Transitions. d) None of the above.

7. Different episodes of a programme can be distinguished during editing by :

a) Scenes. b) Sequences.

c) Tracks. d) Timelines.

8. V is the shortcut for ———————— in FCP.

a) Enable/disable Clip. b) Copy Clip.

c) Remove clip. d) Trim clip.

9. 00 : 23 : 54 : 16

16 in the above time code indicates :

a) Seconds. b) Frames.

c) Micro seconds. d) None of the above.

10. Synchronization in video editing means :

a) Matching frames. b) Matching multi-camera videos.

c) Matching Time code. d) All of the above.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
All questions carry equal marks.

Write short notes on :—

11. Special effects.
12. Colour correction.
13. Rendering.
14. Roll Edit.
15. Transitions.
16. Video Effects.
17. Audio Filters.
18. Key frames.
19. Compositing.
20. Layering.
21. Masking.
22. Backing up project.

(8 × 2 = 16 marks)

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Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

Write short essay on :—

23. Differentiate between slip and slide ?
24. Define the role of special effects in video editing ?
25. How effectively speed adjustment of the clip can be used in video editing ?
26. What are the possible output video format presets in FCP and their differences ?
27. How to access auto-save files in case the project file is damaged ?
28. How does a secondary monitor helps editing process ?
29. Explain the process of switching on the secondary preview monitor while editing ?
30. Explain the process of backing up the project file and media during video editing ?
31. What is meant by trimming clips ? Why trimming is done ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. "Video Editing requires aesthetics more than technical knowledge"—Comment on the statement and justify your answer.
33. How does news edit differ from programme edit ? Compare and contrast different tools and techniques used for both news and programme edit.
34. Promo video editing is different from normal video editing. What are the additional tools and techniques used while editing a promo ? Why they are used so ?
35. Speed of a clip determines the visual effect ; Reducing and increasing speed of a visual can make different impacts—Explain the process of adjusting speed of a visual and relate where they can be used effectively.

(2 × 15 = 30 marks)

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C 84062 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Broadcast Journalism

SDC 4BJ 13—ADVANCED TELEVISION PRODUCTION

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

Choose the Correct Answer :

1. A vehicle equipped with video production and editing devices called :
   a) Mobile Production Unit. b) OB Van.
   c) PCR. d) Electronic Field productions.
2. Mobile Production units are used for :
   a) Field productions. b) Outdoor Broadcast.
   c) Studio Productions. d) Live Productions.
3. In multi-camera productions, JIB is used as :
   a) Main camera. b) Backup camera.
   c) Primary Camera. d) Secondary Camera.
4. DSLR Camera doesn't provide video format.
   a) AVCHD. b) DV.
   c) MP4. d) Both a) and b).
5. Blimp is a :
   a) Video Stabilizer. b) Grains Reduction tool.
   c) Audio mixer. d) Noise Reduction tool.
6. The minimum number of camera required for a multi camera production :
   a) 3. b) 2.
   c) 4. d) 1.
7. Which of the following is not part of a Video studio ?
   a) Audio Booth. b) Edit Suit.
   c) Chroma Wall. d) Both a) and b).

Turn over

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8. In online video editing, cameras are directly connected to :

a) Computer. b) Vision Mixer.

c) VTR. d) None of the above.

9. Grains appear on the camera screen when :

a) Light is low. b) ISO is high.

c) Shutter Speed is low. d) Both A and B.

10. Which of the following channels runs the interview programme titled "Point Blank" ?

a) Manorama News. b) Mathrubhumi News.

c) Asianet News. d) MediaOne TV.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 marks.

Write short notes on :

11. Virtual Studio.
12. Up linking.
13. Offline Editing.
14. Edit Suit.
15. Field Productions.
16. Indoor Shoot.
17. RF Microphone.
18. Script.
19. Director.
20. Overlay.
21. Chroma Keying.
22. 3Ds Max.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 marks.

Write short essay on :

23. Differentiate between ENG and EFP.
24. What is a mobile production unit ? What are the equipment required to have a MPU ?

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25. Differentiate between live anchoring and anchoring for a recorded programme.

26. What are the qualities of a television news anchor ?

27. How would you relate the technical and aesthetic elements in a television programme production ?

28. Explain the steps of producing a television interview.

29. Briefly explain different genres of television programme and their production.

30. How important is the graphics for television in terms of news ?

31. How the content for television graphics are generated ? What are the aesthetics of television graphics ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are the roles and responsibilities of a programme producer in a television channel ?

33. "News anchoring requires knowledge on current affairs where programme anchoring doesn't". Do you agree with this statement ? Explain your views.

34. Graphics have a major role in news as well as programme production. Critically evaluate the graphics used by different Malayalam channels for programmes and special occasions.

35. Elaborate on the production design of any programme of your choice in Malayalam television ?

(2 × 15 = 30 marks)

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C 84055 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Agriculture

SDC 4AG 14—LIFE STOCK FARMING

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *the following questions.*
Each question carries 1 *mark.*

1. Buffalo milk has more fat content than cow milk (T/F).
2. Name two roofing materials used for cattle housing.
3. Diagrammatically represent the head-to-head system of housing.
4. Define toned milk.
5. Define mixed milk.
6. Young female cattle is known as ————.
7. Gestation period of buffalo is ———— (in days).
8. Define Whey.
9. 'Jersey cow' of the goat world is ————.
10. Causative organism of Salmonellosis.

(10 × 1 = 10 marks)

Section B

Write short notes on any **eight** *of the following questions.*
Each question carries 2 *marks.*

11. Diagrammatically represent the cross-section of cattle shed.
12. Dry period V/S Peak yield.

Turn over

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13. Kangayam.
14. Cross breeding V/S Inbreeding.
15. Signs of health in animal husbandry.
16. Operation flood programme.
17. Standardised milk V/S Flavoured milk.
18. Enlist the factors affecting milk yield.
19. Briefly explain the minor constituents in milk.
20. Holstein Friesian.
21. NDDB and its objectives.
22. Milk fever.

(8 × 2 = 16 marks)

Section C

Answer any **six** *of the following short essay type questions.*
Each question carries 4 *marks.*

23. Briefly explain :
    (a) Milk.
    (b) Milk composition.
24. Briefly explain the care and management of lactating animals.
25. Briefly explain the principles of clean milk production.
26. Describe the sources of contamination of milk.
27. Briefly explain the factors affecting milk yield.
28. Duck management.
29. Classification of animal diseases.
30. Briefly explain Anthrax.
31. Briefly explain Haemorrhagic Septicaemia.

(6 × 4 = 24 marks)

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Section D

Write an essay on any **two** *of the following questions.*
Each question carries 15 *marks.*

32. Describe :
    (a) Housing of cattle.
    (b) Types of housing.
    (c) Care and management of new-born calf.
33. Write an essay on poultry management with special emphasis on housing, general management practices, diseases and breeds.
34. Write an essay on bacterial diseases of cattle.
35. Describe :
    (a) Livestock management- Principles, functions and tools.
    (b) General management- Practices in dairy farming.

(2 × 15 = 30 marks)

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C 84054 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Agriculture

SDC 4AG 13—WEED MANAGEMENT AND FODDER CROP PRODUCTION

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *the following questions.*

1. Toxicity of lantana is due to ————.
2. What is dredging ?
3. Runner, instead of trailing on the soil surface, rises in the form of an arch before hitting the soil, is called ————.
4. Name the biocontrol of *Salvinia molesta*.
5. Silver shoot symptom is due to the attack of ————.
6. Name the three species of plumbago.
7. Who authored 'Horse Hoeing Husbandry' ?
8. Source of morphine is ————.
9. NIRJAFT located at ————.
10. Which is the first transgenic crop in India ?

(10 × 1 = 10 marks)

Section B

Write short notes on any **eight** *of the following questions.*

11. Differentiate topping and desuckering in tobacco.
12. Define crop bound weeds. Give five examples.
13. Distinguish between noxious weeds and obligate weeds with examples.
14. Match the following :

a)	Deadly Night shade	- 1)	Scrophulariaceae.
b)	Fox glove	- 2)	Apocynaceae.
c)	Amalpori	- 3)	Verbenaceae.
d)	Kumizhu	- 4)	Solanaceae.

Turn over

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15. List out the three fruits of Triphala.
16. List out ten mechanical methods to control weeds.
17. Differentiate between pappus and comose with examples.
18. What is wettable powder ? Explain.
19. Distinguish between stolon, suckers and offsets.
20. Match the following :

a)	Digoxin	- 1)	Meliaceae
b)	Village dispensary	- 2)	Blue colour
c)	Indigotin	- 3)	Oncovin
d)	Vincristine	- 4)	Scrophulariaceae

21. List out the ten roots of Dasamoola.
22. Differentiate between monoecious and dioecious weeds with example.

(8 × 2 = 16 marks)

Section C

Answer any **six** *of the following short essay type questions.*

23. Write a note on dispersal of weeds with example.
24. What is biological control of weeds ? Write the merits and demerits of biological control
25. Briefly explain different rice growing seasons of Kerala.
26. What is mycoherbicides ? Write 5 mycoherbicides with their content and weeds controlled.
27. Write a short essay on different methods of planting sugarcane.
28. Write any 10 short duration rice varieties with their characteristics.
29. What is IWM ? Explain the principles and advantages of IWM.
30. What are the different cultural methods of weed control ?
31. What is multi species integration in rice ? Explain.

(6 × 4 = 24 marks)

Section D

Write an essay on any **two** *questions.*

32. Write an essay on different classification of weeds with examples.
33. Define weed management. Explain the principles of weed management.
34. What are aquatic weeds ? Explain the management of aquatic weeds.
35. Write a detailed note on various hints for reducing the cost of cultivation of rice.

(2 × 15 = 30 marks)

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C 84051 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Accounting and Taxation

SDC 4AT 16 E2—RISK MANAGEMENT AND INSURANCE

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———————— is a situation in which measurable objectives cannot be calculated.
2. When was Life Insurance sector nationalised ?
   a) 1834. b) 1907.
   c) 1938. d) 1956.
3. ———————— means the firm retains part or all of the losses that can result from a given loss.
4. Risk which arises all activities from contingent liabilities and assets is considered as :
   a) Off balance sheet risk. b) Income statement risk.
   c) Balance of trade risk. d) Balance of payment risk
5. ———————— is the practice of identifying potential risks in advance.
6. When maturities of liabilities and assets are mismatched and risk incurred by financial intermediaries then this risk is classified as :
   a) Interest rate risk. b) Channel rate risk.
   c) Economic risk. d) Issuance risk.
7. ———————— Refers to techniques that provide for the funding of losses.
8. The Basis of risk is :
   a) Liability. b) Uncertainty.
   c) Possibility of loss. d) Insurance.

Turn over

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9. _____ costs include broker commissions or fees.

10. When was Triton Insurance Company Ltd established ?

a) 1834. b) 1850.

c) 1907. d) 1918.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions, not exceeding* **a paragraph.**

11. What is IRDA ?

12. What is risk avoidance ?

13. What is risk communication ?

14. What do you mean by consideration in an insurance contract ?

15. What is a put option ?

16. What is Hedging ?

17. What are catastrophe bonds?

18. What is risk evaluation ?

19. What are annuities ?

20. What is risk management ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in a page of* 50 *words.*

21. Define and categorise risk.

22. What are the benefits of risk financing ?

23. Discuss the emergence of governance, risk and compliance (GRC).

24. Explain the various employee benefits plans in insurance.

25. Write a note on risk management tools.

26. Explain different types of insurance policies against risk.

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27. Understand current trends in risk management.

28. Discuss the emergence of Enterprise Risk Management (ERM).

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions, not exceeding* **four pages.**

29. What are the Total costs of Risk factors ?

30. Explain the various methods of managing the risk.

31. What are insurance contracts ? Explain the types of commercial property insurance.

32. Briefly describe the privatization of insurance sector.

(2 × 15 = 30 marks)

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C 84050 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Accounting and Taxation

SDC 4AT 16 E1—NRI BANKING AND FOREIGN EXCHANGE MANAGEMENT

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. The acronym FEDAI stands for :

   a) Foreign Exchange Dealers' Association of India.

   b) Federal Export Dealers' Association of India.

   c) Fixed Earners' Draft Agreement on Interest.

   d) None of the above.

2. ———— means the official reduction in the external value of the domestic currency in terms of other currencies.

   a) Errors and omissions. b) Devaluation.

   c) Depreciation. d) None of these.

3. FEMA stands for ————.

   a) Foreign Exchange Management Act.

   b) Foreign Exchange Market Adjustment.

   c) Foreign Extra Market Adjustment.

   d) None of these.

4. A foreign currency account maintained by a bank abroad is its :

   a) Nostro account. b) Vostro account.

   c) Loro account. d) Foreign bank account.

Turn over

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5. The term "loro account" means :

a) Our account with you. b) Your account with us.

c) Their account with them. d) None of these.

6. ———— is the rate at which the currency of one country is exchanged for the currency of another country.

a) Foreign exchange. b) Over the counter.

c) Premium. d) None of these.

7. ———— system is a compromise between extremes of freely fluctuating exchange rates and perfectly stable exchange rates.

a) Adjustable peg. b) Managed floating.

c) Fixed. d) Crawling peg.

8. ———— refers to the monetary difference between the value of exports and imports of a country during a calendar year.

a) Balance of trade. b) Barriers of trade.

c) Export. d) Import.

9. ———— is a market in which national currencies are bought and sold against one another.

a) Foreign capital. b) Foreign exchange.

c) Over the counter. d) Swaps.

10. ———— are a broad set of instruments whose values depend on some underlying basic assets.

a) Derivatives. b) Capital.

c) Assets. d) Liabilities.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions, not exceeding* **a paragraph.**
Each question carries 2 marks.

11. What are derivatives ?
12. What is Vostro account ?
13. Define Balance of Payment.
14. Define Foreign Exchange.
15. What is Exim policy ?
16. What do you mean by swaps ?

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17. Explain features of derivatives.

18. What is arbitrage ?

19. What are unilateral transfer ?

20. Define debit in balance of payment.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in a page of 50 words.*
Each question carries 4 *marks.*

21. Explain FEMA.

22. Distinguish between fixed and flexible exchange rate.

23. Illustrate the surplus and deficit in BOP.

24. Distinguish between American and European quotation.

25. Describe the different types of derivatives.

26. Explain purchasing power parity.

27. Distinguish between Balance of trade and Balance of Payment.

28. Discuss the major types of disequilibrium.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions, not exceeding* **four pages.**
Each question carries 15 *marks.*

29. What do you mean by foreign exchange market ? Explain its features and participants in the foreign exchange market.

30. Explain the functions of foreign exchange department. Explain nostro account, vostro account and loro account.

31. What do you mean by futures and forwards ? Specify its features and differentiate between it.

32. Define BOP. Discuss its major components.

(2 × 15 = 30 marks)

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C 84049 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Accounting and Taxation

SDC 4AT 15—AUDITING AND CORPORATE GOVERNANCE

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Meaning of audit is ————.
   (a) Examination of books of accounts.
   (b) Examination the authenticity of verifying transactions.
   (c) To verify the financial position as disclosed by balance sheet and profit and loss of a firm.
   (d) Through scrutiny of books of accounts.
2. Voucher is a ————.
   (a) Receipt.
   (b) A document for payment of cash.
   (c) A stamped receipt.
   (d) A documentary evidences.
3. A Investigation means :
   (a) Checking of accounts.
   (b) Detailed examination of accounts.
   (c) Auditing of accounts.
   (d) To see whether the accounting policies one carried out.
4. The closing stock is valued at :
   (a) Cost price.
   (b) Market price.
   (c) Both cost price and market price.
   (d) Cost price or market price which ever is lower.

Turn over

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5. One of the limitations of auditing is :

   (a) Auditing may not reveal the manipulations already made by high officials of the company.

   (b) Auditing fails to safeguard the interest of the investors.

   (c) Not detecting errors and fraud.

   (d) Auditor fails to check all the transactions.

6. One of the important principles of internal check is :

   (a) Division of work among client staff.

   (b) Rotation of employees.

   (c) Staff dealing with cash, goods should lie encouraged to go as leave at least once in a year.

   (d) No employees in the business should be trusted up on too much.

7. Cost audit is compulsory to :

   (a) All companies.

   (b) All industrial companies.

   (c) All large scale companies.

   (d) To companies engaged in manufacturing mining activities u/s 209(d)8.

8. The committee which established to make decisions in the boards absence is called :

   (a) Audit committee.

   (b) Finance committee.

   (c) Executive committee.

   (d) Remuneration committee.

9. In which committee the code of governance is known as 'code of best practice' ?

   (a) Cadbury committee. (b) Greenburry committee.

   (c) Hampel committee. (d) None.

10. Which clause stipulate that the board shall set up a qualified and independent audit committee ?

   (a) Clause 29. (b) Clause 45.

   (c) Clause 34. (d) Clause 49.

(10 × 1 = 10 marks)

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Part B

Answer any **eight** *questions, not exceeding* **a paragraph.**

Each question carries 2 *marks.*

11. Define Audit Programme.
12. How the opening balance of bought ledger is vouched ?
13. Explain the term statutory audit.
14. What is social audit ?
15. Explain the term internal audit.
16. What is voucher ?
17. What do you mean by whistle blowing ?
18. What is an error of principle ?
19. What is corporate governance committee ?
20. What is OECD principles of CG rating ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in a page of* 50 *words.*

Each question carries 4 *marks.*

21. Discuss the method of teaming and ladding of cash receipt from debtors.
22. What are the advantages and disadvantages of interim audit ?
23. What are the objectives of internal checks ?
24. Write note on clause 49.
25. Explain Audit Committee.
26. What are the general basic principles of audit ?
27. What are the criminal liabilities of an auditor under Income Tax Act ?
28. What are the differences between vouching and verifications ?

(6 × 4 = 24 marks)

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Part D

Answer any **two** *questions, not exceeding* **four pages.**

Each question carries 15 *marks.*

29. Vouching is the "essence" of auditing. Comment.

30. Explain the recent trends in auditing.

31. Briefly explain advantages and disadvantages of auditing and also explain the qualities and qualification of a professional auditor.

32. Write note on Corporate governance, Green governance, and E governance.

(2 × 15 = 30 marks)

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C 84048 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Accounting and Taxation

SDC 4AT 14—INDIRECT TAXATION

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Expansion of 'GST' is :

   a) Goods and supply tax. b) Goods services tax.

   c) Government service tax. d) Goods and services tax.

2. In the case of union territories there is ———— in place of SGST.

   a) SGST. b) UTGST.

   c) BCD. d) SEZ.

3. ———— means the territory which is outside the taxable territory.

   a) Non-taxable territory. b) Non-taxable supply.

   c) Output tax. d) Mixed supply.

4. Supply of two or more taxable supplies naturally bundled and supplied is called :

   a) Mixed supply. b) Composite supply.

   c) Common supply. d) Continuous supply.

5. Customs duty is a ———— tax and mainly imposed on imported goods.

   a) State. b) Central.

   c) Territorial. d) None of these.

6. ———— means export of an article from any country or territory to India at less than its normal value.

   a) Dumping. b) Shifting.

   c) Raising. d) None of these.

Turn over

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7. Output tax of a taxable person :

a) Includes reverse charge.
b) Excludes reverse charge.
c) Includes composite tax.
d) Includes all the taxes paid.

8. SGST is applicable when :

a) Goods are sold within a state.
b) Goods are sold from one GST dealer to a customer.
c) Goods are sold by a GST dealer to another GST dealer.
d) Interstate supply.

9. ———————— is the form of GST collected by State Government.

a) SGST.
b) CGST.
c) IGST.
d) UTGST.

10. ———————— is paid by an individual based on his or her taxable income in given financial year.

a) Income tax.
b) Sales tax.
c) Wealth tax.
d) Ad valorem tax.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions, not exceeding* **a paragraph.**

11. What is sales tax ?
12. What is meant by indirect tax ?
13. Explain aggregate turnover.
14. Who is an intermediary ?
15. What is indirect tax ?
16. Write examples for indirect taxes.
17. What is inward supply ?
18. What is cascading effect on tax ?

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19. What is intra state supply ?

20. What is capital gain tax ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in a page of* 50 *words.*

21. Explain different types of indirect taxes

22. Briefly explain the evolution of GST system in India

23. Explain the role of GST Council.

24. Explain provisions of levy and collection of tax in GST.

25. What are the scope and features of composition scheme.

26. What is SGST ? Explain with an example.

27. Explain the criticisms against GST system

28. Difference between direct tax and indirect tax.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions, not exceeding* **four pages.**

29. What is indirect tax ? What are its advantages and disadvantages ?

30. What is GST ? Explain special features of GST.

31. What are the necessary components that constitute supply under the central GST/state GST Act ?

32. What is customs act ? Explain its types.

(2 × 15 = 30 marks)

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C 84047 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

GEC 4MY 11—MINERALOGY (GLY4B07)

Time : Three Hours Maximum : 80 Marks

Draw neat sketches wherever necessary.

PART A (Objective Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. The most important ore mineral of zinc is ————.
2. The composition of labradorite is ————.
3. The elements in the mineral halite is linked together by ———— bonds.
4. ———— is a type of tenacity in which a mineral can be cut into thin shavings with a knife
5. The luster of gypsum is ————.
6. The optical property when a mineral displays more than one absorption colour is known as ————.
7. The silica tetrahedral are arranged in ———— pattern in chlorite structures.
8. The typical amphibole present in blueschist facies metamorphic conditions is ————.
9. The general formulae of epidote is ————.
10. An accessory in a petrological microscope that is used to observe interference figures is ————.

(10 × 1 = 10 marks)

Part B (Short Answer Type Questions)

Answer any **ten** *questions, each in a sentence* **or** *two.*
Each question carries 2 marks.

11. Polaroid.
12. Pseudomorphism.
13. Tephroite.
14. Extinction angle.
15. Ferrosilite.
16. Chatoyancy.

Turn over

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17. Isomorphism.
18. Scapolite.
19. Becke line.
20. Optic axis.
21. Chrisotile.
22. Acute Bisectrix.

(10 × 2 = 20 marks)

Part C (Paragraph Type Questions)

Answer any **five** *questions, each in a paragraph.*
Each question carries 6 *marks.*

23. Polymorphs of Al_2SiO_5.
24. Biaxial Indicatrix
25. Exsolution in minerals
26. Physical and optical properties of Calcite
27. Methods of specific gravity estimation of minerals
28. Plane polarization by reflection and refraction
29. Optical properties of tourmaline and flourite
30. Determination of optic sign of uniaxial minerals

(5 × 6 = 30 marks)

Part D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 10 *marks.*

31. Give a detailed account of the structure and classification of common rock forming silicates.
32. Describe the mineralogy, structure, physical and optical properties, and mode of occurrence of feldspar group of minerals.
33. Briefly describe the petrological microscope and its parts. Add a brief note on the types and uses of various optical accessories in a petrological microscope.
34. Describe the structure, classification, optical, physical and chemical properties, and mode of occurrence of clinopyroxene group of minerals.

(2 × 10 = 20 marks)

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C 84046 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2020

(CUCBCSS—UG)

Digital Film Production

GEC 4HC 11—HISTORY OF CINEMA

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Who directed Citizen Kane ?
2. "What is Cinema?" a classic book on film studies is written by ?
3. Odessa Steps is a sequence in the film ————.
4. Bicycle thief is a ———— neo realistic film.
5. Name one movie directed by Sir Richard Attenborough.
6. Who made the birth of nation (1915) ?
7. Who invented Celluloid roll film ?
8. IFFK is held in ————.
9. Depth of field.
10. Visual Space.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Patherpanchali.
12. Rashamon.
13. Swayamvaram.
14. Elipathayam.
15. D. W. Grifiths.
16. Shyam Benegal.

Turn over

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17. Montage theory.
18. Psycho.
19. Visual Composition.
20. Pokuveyil.
21. Lumiere Brothers.
22. Anand Patwardhan.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Elucidate the concept of balance and contrast.
24. Explain the theory of montage proposed by Eisenstein.
25. What is fiction and non fiction ?
26. Explain the significance of establishing shot.
27. What is rule of thirds.
28. Akira Kurosowa.
29. Film Classification.
30. Language of cinema.
31. New generation cinema in Malayalam.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Elucidate the evolution of cinema in India and Europe.
33. Write an essay on cinema movements and explain two of them ?
34. Cinema as an art and an industry - Explain.
35. Contribution of Malayalam cinema to the world cinema.

(2 × 15 = 30 marks)

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C 84045 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Digital Film Production

GEC 4CW 10—CREATIVE WRITING FOR TV AND FILM–2

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Sathyajit Ray Trilogy.
2. Father of Indian Cinema.
3. Who is Griffith ?
4. What is called Visual Language ?
5. Which film John Abraham directed in Tamil ?
6. What is Storyboard ?
7. Director I.V Sasi.
8. Which is the first colour film in Malayalam ?
9. Who is the director of Swapnadanam ?
10. Who is Takashi Fujio ?

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is the structure of a script ?
12. What is mean by character ?
13. Define Dialogue ?
14. Define Conflict ?
15. What is Sequence ?
16. What is Adaptation ?
17. What are point of view shots ?

Turn over

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18. What is aspect ratio ?
19. What is Continuity ?
20. What is post-production ?
21. What is focal length ?
22. What is Composition ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Describe the importance of "Citizen Kane".
24. Explain what is shooting script ?
25. Explain the common rules in script writing ?
26. Explain the difference in TV and movie script
27. Explain the different styles of storytelling ?
28. What are peak moments ?
29. Explain the specialty of Alfred Hitchcock films.
30. What are the different types of shots according to the idea ?
31. Explain about the miniature shots ?

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write an essay on an international filmmaker ?
33. Write a short film script for a suspense thriller ?
34. Write critical notes on Adoor Gopalakrishnan's Film making.
35. Discuss the contributions of P.K. Nair to Indian Film Industry ?

(2 × 15 = 30 marks)

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C 84044 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

GEC 4BM 11—BASICS OF AUDIO AND VIDEO MEDIA (A14)

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———— is the typical value of the reverberation period of a TV studio.
2. Define acoustic noise.
3. State the necessary requirement for diffraction of sound to occur.
4. Diaphragm is made up of ————.
5. What is the major advantage of the Binary-Weighted-Input Digital-to-Analog Converter ?
6. ———— is the maximum efficiency of direct radiating type loud speaker.
7. ———— Kbps is the maximum bit rate supported by MP3.
8. Video recording is based on the principle of (a) ———— and playback is based on the principle of (b) ————.
9. Highest capacity in an optical disc can be obtained by using laser beam of ———— light
10. In magnetic video recording, the need for frequency modulation is to reduce the ————.

(10 × 1 = 10 marks)

Part B

Answer any **five** *questions.*
Each question carries 2 *marks.*

11. What are the factors on which reverberation time depends ? Define Sabin's formula.
12. Discuss the sound absorption properties of porous materials.
13. Compare and contrast the Graphic Equalizers and Parametric Equalizers.
14. Write any two advantages of electrodynamic loudspeaker.
15. Write any four disadvantages of flash ADC.

Turn over

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16. Differentiate between MPEG2 and MPEG4.

17. How is video recording managed with the low speed of the tape ?

(5 × 2 = 10 marks)

Part C

Answer any **six** *questions.*
Each question carries 5 *marks.*

18. Discuss the three-way speaker system with the help of figures.

19. With the help of frequency response characteristics define high pass, low pass and notch filters.

20. Explain the acoustic design of auditoriums.

21. Explain the hearing mechanism of human ear.

22. Compare MP3 and AAC.

23. Compare VCD and DVD.

24. Write short note on DVD playback process.

25. Compare optical disc recording with the magnetic tape recording.

(6 × 5 = 30 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

26. Draw the block diagram of a basic stereo tape recorder and write down the functions of each block.

27. Discuss the construction, frequency response, directivity, applications and working principle of a condenser microphone with the help of suitable figures.

28. Write down an essay on computer-based DAW's. Also, discuss PC-based DAW's.

29. With the help of a block diagram write down an essay on video recording on magnetic tape.

(2 × 15 = 30 marks)

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C 84043 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Software Development

GEC 4SE 11—SOFTWARE ENGINEERING PRINCIPLES

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. ———— performed to ensure that software is free from error.
2. ———— is the process that checks the delivered software system is acceptable or not.
3. ———— is the first step in SDLC which moves the concentration from problem domain to solution domain.
4. ———— process can be seen as reverse SDLC model.
5. COCOMO stands for ————.
6. ———— model is used when requirements are not well understood.

   A) Prototyping. B) Win-Win.

   C) Incremental. D) Waterfall.

7. Model preferred to create client/server application is ————.

   A) WINWIN spiral model. B) Spiral model.

   C) Concurrent model. D) Incremental model.

8. ———— is a measure that defines the level of inter-dependability among modules of a program.

   A) Cohesion. B) Coupling.

   C) Modularization. D) None of the above.

9. Maintenance testing is performed using ———— methodology.

   A) Retesting. B) Sanity testing.

   C) Breadth test and depth test. D) Confirmation testing.

10. ———— tools assist in the planning, development and control in CASE.

    A) Dynamic measurement. B) Data acquisition.

    C) Test management. D) Cross-functional tools.

(10 × 1 = 10 marks)

Turn over

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Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What do you mean by prototype model ?
12. Define Software Engineering.
13. What are the four impacts of project risk ?
14. What is feasibility study ?
15. Define Decision table.
16. What do you mean by coupling ?
17. What is Program Design Language ?
18. What is boundary value analysis ?
19. What are the basic principles of software testing ?
20. What is the significance of PERT chart ?
21. What is Function Point ?
22. Differentiate product and process metrics.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Draw a diagram for pure Waterfall life cycle model.
24. What are the various categories of software ?
25. Explain Software Requirement Specification.
26. Explain DFD with examples.
27. Explain function oriented design.
28. What are the fundamental activities of a software process ?
29. Define black box testing strategy.
30. Distinguish between verification and validation.
31. Explain software configuration management activities.

(6 × 4 = 24 marks)

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Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. **Explain phases in SDLC.**

33. **Explain function oriented design and object oriented design.**

34. **What is test case management ? How testing tools are used to test a software ? Explain any two testing tools to test a software.**

35. **Explain the activities involved in conducting Formal Technical Review.**

(2 × 15 = 30 marks)

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C 84042 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION APRIL 2020

(CUCBCSS—UG)

Multimedia

GEC 4PP 11—PREPRODUCTION

Time : Three Hours Maximum : 80 Marks

I. Objective Type Questions. Answer all *ten* questions. Each question carries 1 mark :

1 The inciting incident is also known as ————.

(a) Adventure. (b) Tragedy.

(c) Comedy. (d) None of the above.

2 ———— describes the different types of projects and provides tips and information about each.

(a) Project conception. (b) Writing.

(c) Pre-visualization. (d) Production planning.

3 A cinematographer is another name for *m* :

(a) Art director. (b) Director of photography.

(c) Production designer. (d) Director.

4 When should all, or most of your production decisions be made ?

(a) On the movie set. (b) The day of filming.

(c) Pre-production. (d) Post production.

5 Shooting script :

(a) Final draft used on set by the production people.

(b) Script prepared during shooting.

(c) A review of script.

(d) None of the above.

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6 ———— is the specialized acting form.

(a) Improvisation. (b) To record or not.

(c) Monologue. (d) None of the above.

7 What should always be considered when framing a shot ?

(a) Battery power. (b) Shot list.

(c) Rule of thirds. (d) Sound.

8 Which of the following technique is used to simply replace one shot with the next ?

(a) Focus. (b) Lighting.

(c) Screen space. (d) Depth.

9 In shots with action, ———— and visual balance change constantly as subjects move about in the frame.

(a) Focus. (b) Lighting.

(c) Screen space. (d) Depth.

10 Always use a tripod (never hold the camera) when the lens is set to ————.

(a) Soft focus. (b) Telephoto.

(c) Wide angle. (d) Zoom.

(10 × 1 = 10 marks)

II. Short answer questions. Answer any *eight* questions. Each question carries 2 marks :

11 What is a narrative ?

12 How to develop a script ?

13 What are the basic script formats ?

14 What are the nature of script ?

15 Who are the characters of a story ?

16 Explain head room.

17 How to decide pre-visualizing about script ?

18 What is a grip in a film crew ?

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19 What is extreme close up shot ?

20 Name five elements of scripting.

21 Explain medium long shot.

22 What is meant by long shot ?

(8 × 2 = 16 marks)

III. Write short essays on any of the *six* questions. Each question carries 4 marks :

23 Write about casting and scheduling.

24 Explain the full script format.

25 What is shooting script ?

26 What is storyboard ?

27 Explain documentary projects.

28 Write short note on equipment.

29 What is the difference between long shot and medium shot ?

30 Write short note on MCU and ECU.

31 What is camera angle ? Explain each one.

(6 × 4 = 24 marks)

IV. Write essays on any *two* of the following. Each question carries 15 marks :

32 What is script ? How to develop a script ? What is breaking down script ?

33 Write a script for 10 minutes Advertisement programme. Also write about script and storyboard.

34 Short note on production crew. Write about the role of each member.

35 Explain camera angle, shot and focus.

(2 × 15 = 30 marks)

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C 84041 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Logistics Management

GEC 4ED 11—ENTREPRENEURSHIP DEVELOPMENT (A13)

(2017 Admissions)

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———— entrepreneurs are extremely task oriented.
2. Social attitude is one of the important problems of a ———— entrepreneur.
3. The scheme of E.D. clubs will be implemented by ————.
4. The process of evaluating the project ideas with a view to select the best and promising idea after eliminating the unprofitable ideas is called ———— of project ideas.
5. Project formulation means ————.
6. A set of reasons for engaging in a particular behavior is known as ————.
7. ———— is an entrepreneur's plan of action.
8. The ———— programmes help the educated unemployed youth set up their own business concerns on self employment basis.
9. A ———— entrepreneur who initiatives various kinds of service activities.
10. The MSME Development act came into force in ————.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is innovation ?
12. Who is a Fabian entrepreneur ?

Turn over

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13. Define MSME.
14. What is project identification?
15. Who is a Pure entrepreneur?
16. What is a project ?
17. What is entrepreneurial training ?
18. What do you mean by economic development ?
19. Define Entrepreneurship.
20. What do you mean by risk bearing ?
21. Who is a spontaneous entrepreneur ?
22. What is project idea ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain the characteristics of entrepreneurship.
24. Distinguish between entrepreneur and entrepreneurship.
25. Explain the skills of an entrepreneur.
26. Describe the qualities required for a successful entrepreneur.
27. What are the objectives of MSME ?
28. Explain the entrepreneurship in agricultural sector.
29. Briefly explain international entrepreneurship.
30. Describe the functions of women entrepreneurs.
31. Explain the steps in setting up MSME.

(6 × 4 = 24 marks)

Part D (Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Define Entrepreneur. What are the functions of entrepreneur ?
33. What is MSME ? Explain the features and role of MSME.
34. What is project report ? Explain the importance and problems of project report.
35. Define EDP. Explain its objectives and role in society.

(2 × 15 = 30 marks)

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C 84040 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

GEC 4E D12—ENTREPRENEURSHIP DEVELOPMENT (A13)

(2014 Admissions)

Time : Three Hours Maximum : 80 Marks

Part I

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———— is an entrepreneur who undertakes manufacturing activities.
   a) Trading entrepreneur. b) Agricultural entrepreneur.
   c) Industrial entrepreneur. d) Business entrepreneur.
2. Who applied the term entrepreneur to business for the first time ?
   a) Peter F Drucker. b) Richard Cantillian.
   c) Schumpeter. d) None of these.
3. ———— is the rate at which total present value of future cash flow is equal to initial investment.
   a) IRR. b) ARR.
   c) NPV. d) None of these.
4. NIESBUD was set up in the year :
   a) 1982. b) 1981.
   c) 1983. d) 1985.
5. Entrepreneurship is a ————.
   a) Person. b) Business unit.
   c) Process. d) None of these.

Fill in the Blanks :

6. NSIC stands for ————.
7. Trade credit is a ———— source of finance.
8. ———— is the process of appraising the progress and performance in relation to the project's initial or revised plan.

Turn over

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9. ———— is someone who has started his/her first entrepreneurial venture.

10. ———— units provide inputs to other industries.

(10 × 1 = 10 marks)

Part II

Answer any **eight** *questions from the following.*
Each question carries 2 *marks.*

11. Who is an Entrepreneur ?

12. Who is an Ultrapreneur ?

13. Who is a woman entrepreneur ?

14. What is Micro enterprise ?

15. What is meant by Subsidy ?

16. Define project report.

17. What do you mean by Business clusters ?

18. What is Non-quantifiable project ?

19. What is TCO ?

20. Expand PERT and CPM.

(8 × 2 = 16 marks)

Part III

Answer any **six** *questions from the following.*
Each question carries 4 *marks.*

21. Explain the functions of an entrepreneur.

22. What are the barriers to entrepreneurship ?

23. Explain the role of MSME in developing Countries.

24. Write a note on KITCO.

25. What are the functions of SIDBI ?

26. What are the sources of Project Ideas ?

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27. What are the measures taken to speed up industrial growth in Kerala ?

28. What are the types of business incubators ?

(6 × 4 = 24 marks)

Part IV

Answer any **two** *questions from the following.*
Each question carries 15 *marks.*

29. Explain the factors affecting entrepreneurial growth.

30. What are the steps in setting up of MSMEs ?

31. Explain the various methods of profitability appraisal of project.

(2 × 15 = 30 marks)

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C 84038 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

English

A04—ZEITGEIST–READINGS ON CONTEMPORARY CULTURE

(2017 Admissions)

Time : Three Hours Maximum : 80 Marks

I. (A) Answer *all* the following questions by choosing the correct answer :

1 Who was the chairman of the Constituent Assembly ?

a) Dr. S. Radhakrishnan. b) Dr. Rajendra Prasad.

c) Dr. B. R. Ambedkar. d) H. C. Mukherjee.

2 In which Pakistani city was the lunatic asylum situated ?

a) Lahore. b) Karachi.

c) Islamabad. d) Rawalpindi.

3 In which magazine was the "The Story of an Hour" originally published ?

a) Vogue. b) The New Yorker.

c) The New York Times. d) The Newsweek.

4 Blues in Auden's poem refer to :

a) Song of celebration. b) Song of lament.

c) Sonnet. d) Ballad

5 In which language was Akkarmashi originally written ?

a) Tamil. b) Malayalam.

c) Kannada. d) Marathi.

(5 × 1= 5 marks)

I. (B) Answer *all* the following questions in a word *or* phrase :

6 They had no politicians and sang at their ease.' Who ?

7 What does Chief Seattle mean by 'the smoking iron horse' ?

8 In which college did Adrienne Rich deliver the speech entitled "Claiming an Education" ?

Turn over

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9 Which were the words whispered by Mrs. Mallard, when she sat herself ?

10 Who is the Olympic gold-winning decathlete mentioned in "What It's like to Be Transgender" ?

(5 × 1= 5 marks)

II. Answer any ten of the following questions in a sentence or two:

11 Who are the lot referred to as the lovers of violence ?

12 Why did one of the lunatics climb up a tree ?

13 What is meant by the phrase, 'puppet's world' ?

14 What are the conditions laid by Seattle to sell his land to the great chief ?

15 Why did Zlateh trust the human beings ?

16 What are the necessary ingredients of intellectual freedom ?

17 How did the speaker describe the phase 'I decided to be a boy' ?

18 How did the man respond in the court when his baby daughter was brought there for the first time ?

19 How did Harya become an asset to the family ?

20 What are Harari's observations about the French revolution ?

21 What does the poet say of the resiliatory power of trees ?

22 Explain : 'If we let them in, they will steal our daily bread.'

(10 × 2 = 20 marks)

III. Answer any *four* of the following questions in a paragraph of 100 words :

23 Explain the significance of the title "Toba Tek Sing".

24 Chopin's treatment of marriage and family.

25 Briefly describe the alienation of the transgender in relation to "What It's like to Be Transgender".

26 The animal imagery in "Refugee Blues".

27 The concept of socialism proposed by Gordimer in the story.

28 The discrimination of the Dalits, according to Limbale.

(4 × 5 = 20 marks)

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IV. Write essays on any *two* of the following questions in 300 words :

29 "On Killing a Tree" describes man's cruelty and violence to nature. Discuss.

30 "What It's like to Be Transgender" is a documentation of the identity crisis and the denial of the basic human rights of the transgender. Discuss.

31 "Refugee Blues" is a documentation of the denial of the human rights of the migrant population of the world. Discuss.

32 Critically examine "Amnesty" as the story of a young woman whose ambitions are thwarted by social inequalities.

(2 × 15 = 30 marks)

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C 84037 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

English

GEC 4EG 10—READINGS ON SOCIETY (ENG 2A 04)

Time : Three Hours Maximum : 80 Marks

I. Answer *all* questions. Each question carries 1 mark :

1 What is mono-culture ?

(a) Uncultured. (b) One culture.

(c) Multi cultural. (d) None of these.

2 Who said this "Enjoy that which has been given unto you" ?

(a) Shruthi. (b) Rajendra Prasad.

(c) Iqbal. (d) None of these.

3 ———— can be defined as both a consequence and a demonstration of the working of the complex in the atmosphere, the land and the ocean.

(a) Earth. (b) Nature.

(c) Ecology. (d) Climate.

4 Which one of the following is considered as 'a monument to man's misuse of the land' ?

(a) West Asia. (b) Africa.

(c) South India. (d) Nepal.

5 Gudipat Venkat Chalam is a ———— writer.

(a) Telugu. (b) Kannada.

(c) Bengali. (d) Japanese.

6 What is the sin the widow has committed ?

(a) Adultery. (b) Treachery.

(c) Cheating. (d) None of these.

Turn over

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7 Which of the following is the reason for lower women ratio in Asia ?

(a) Climate. (b) Geography.

(c) Poor health and social services. (d) None of these.

8 Name the protagonist "In Stigma Shame and Silence" by Kalpana Jain :

(a) Ashok. (b) Mangamma.

(c) Vankata Rao. (d) Raphael.

9 Who is considered as the "gift of God" in "Yes, I'm Happy, Don't You Believe ?"

(a) Alphonsa. (b) Mercy.

(c) James. (d) Rappai.

10 Rappai was born imbecile and handicapped as the son of a _____.

(a) Saw Mill owner. (b) Carpenter.

(c) Doctor. (d) Refinery Owner.

(10 × 1 = 10 marks)

II. Answer in a sentence or two any *ten* questions. Each question carries 2 marks :

11 What is 'seed replacement' ?

12 What are the suggestions made by Shiva to stimulate the dreams of Indian farmers ?

13 Why does the foreign traveller wonder at India ?

14 What causes ecological imbalance ?

15 Trace the negative impact of human interventions upon nature, mentioned by Salim Ali ?

16 What do human beings often tend to forget when engaging in large scale development activities ?

17 Why does the widow say that Mangamma's love for the kid is not genuine ?

18 List out the two simplistic explanations presented to account for the neglect of women ?

19 What are the specific instances of bias against women that the US and Japan display ?

20 How did Ashok react to the doctor's blunt revelation ?

21 What happened to Rappai at Veega Land ?

22 What does the article, "Yes I am Happy ! Don't You Believe ?" deal with ?

(10 × 2 = 20 marks)

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III. Answer any four of the following questions in a paragraph of 100 words. Each question carries 5 marks :

23 Why does Dr. Rajendra Prasad suggest modification of the moral consciousness ?

24 What is the need for Environmental consciousness in agricultural fields ?

25 How does Amartya Sen relate women's 'gainful employment' to variable change in their destiny?

26 Write a brief description of Rappai's 60th birthday celebration.

27 What does the widow mean by 'a sin exclusive to us' ?

28 How does the progress in communication and technology affect the ecological balance ?

(4 × 5 = 20 marks)

IV. Answer any *two* of the following questions in 300 words. Each question carries 15 marks :

29 According to Dr. Rajendra Prasad, how can Indian consciousness resolve the conflicts of European culture ?

30 Write an essay on Salim Ali's views on the relationship between man and nature.

31 'How does Chalam emphasize the discrimination against women in general and widows in particular as practiced in India in the past ?

32 How does Kalpana Jain delineate a serious social problem in the extract, "Stigma, Shame and Silence" ?

(2 × 15 = 30 marks)

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D 42871 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.Voc. DEGREE EXAMINATION, MAY 2018

(CUCBCSS–UG)

Pharmaceutical Chemistry

GEC 4PG 01—PHARMACOGNOSY

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Give one chemical test for starch.
2. Name the alkaloid present in Adathoda.
3. Give a use of chitrak.
4. Gynaetone is the marketed formulation of ————.
5. Asparagus racemosus belongs to ———— family.
6. Climbing roots are seen in ————.
7. What is nucleoplasm ?
8. Give an example of Anthraquinone glycoside.
9. What is the nature of alkaloids ?
10. On the addition of 80 % sulphuric acid, the powder of liquorice produce ———— colour.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What are flavonoids ? Give an example.
12. Write a note on the nature of sugars in glycosides.
13. Give an identification test for steroids.
14. What are the functions of root ?
15. Give the therapeutic uses of Belladonna.
16. What is Pectin ? Give its use.
17. What is the source of Bran oil ? Give its advantage.

Turn over

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18. What are volatile oils ? Give few examples.
19. Give the constituents of Asafoetida.
20. Give the botanical source and use of Brahmi.
21. Write a note on the medicinal value of neem.
22. Give the botanical source and chemical constituents of Punarnava.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Give the classification of glycosides with examples.
24. Discuss about the simple and compound leaf.
25. Describe the collection and chemical constituents with uses of Aloe.
26. Discuss the macro and microscopic characteristics of digitalis.
27. Write an account of pharmacognosy of Fennel.
28. What are Purines ? Give the collection and preparation of tea.
29. Give the chemical constituents and uses of the following :

    (a) Amla ; (b) Ashoka.
30. Briefly describe the macroscopic and microscopic characters of Rauwolfia.
31. Write the pharmacological categories of Methi.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are alkaloids ? Give the classification of alkaloids. Add a note on True, Pseudo and proto alkaloids.
33. Explain quality control of crude drugs with emphasis on the microscopic, chemical and biological methods of evaluation.
34. Describe the pharmacological categories, common vernacular names, marketed formulations and uses of the following drugs :

    (a) Arjuna ; (b) Chitrak.
35. Explain the collection, preparation, chemical constituents and uses of the following :—

    (a) Castor oil ; (b) Lemon grass oil ; (c) Ginger.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

D 42870 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.Voc. DEGREE EXAMINATION, MAY 2018

(CUCBCSS–UG)

GEC 4MC 01—MEDICINAL CHEMISTRY—I

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Give the first step in the drug discovery process.
2. Name the country where marketing authorization application is done.
3. Define hypnotics with an example.
4. Write the use of Terbutaline.
5. Give the structure of oxazepam.
6. Thiazol ring is present in ————.
7. Name an anti-histamine synthesized by starting from Phthalide.
8. Give the uses of Promethazine.
9. Name the site of diuretic action of ethacrynic acid.
10. Thiazides lower blood pressure by ————.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Write the structure and use of Acetazolamide.
12. What is Ranitidine ? Write its structure.
13. Define Chelation with an example.
14. How ionization affect biological effect of drug.
15. Define lead with an example.
16. Give two examples of general anaesthetics with their structure.
17. What is Psychedelics ? Give an example.

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18. Write the structure of the following :—

    (a) Cocaine ; (b) Nicotine.

19. Give the biological action and structure of epinephrine.

20. Write the mechanism of action and use of Malthion.

21. Give the structure and use of Methacholine.

22. Write the pharmacological use and structure of ephedrine.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain the conventional methods of drug design.

24. Write a note on lead optimization.

25. Discuss the various drug-receptor interactions.

26. Write the synthesis and use of Nikethamide.

27. Write a note on Diazepam.

28. Write the structure and uses of the following :—

    (a) Pilocarpine ; (b) Pyridostigmine.

29. Give the synthesis and use of Phentolamine.

30. Write the stereochemistry of Acetyl choline.

31. Write a note on Salbutamol.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are Diuretics ? Give the classification. Add a note on osmotic diuretics and potassium sparing diuretics.

33. Define anticonvulsants. Write its mechanism of action and structure activity relationship. Write the synthesis of phenytoin.

34. What are the antihistaminic agents ? Give their classification. Write the synthesis of cimetidine. What is the advantage of cetrizine and promethazine.

35. Explain the various physicochemical and stereochemical properties of drugs affecting their pharmacological action.

(2 × 15 = 30 marks)

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C 5028 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS–UG)

Tourism and Hospitality Management

SDC4ED30—ENTREPRENEURSHIP DEVELOPMENT

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*

1. Write any two skills of an Etrepreneur.
2. For small business owners one of the most important objectives is ————.
3. Write a common characteristic of an small scale enterprise.
4. Classify the entrepreneurs on the basis of motivation.
5. Write any two characteristics of small scale business.
6. Expand SSI.
7. Expand MSME.
8. Expand SIDBI.
9. Who is the Minister of Tourism in Kerala ?
10. ———— joint venture is likely to be more attractive than acquisition.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*

11. What is Motivation ?
12. What are the qualities required for an entrepreneur ?
13. Write any five financial institutions of small business in India.
14. What do you meant by business location ?
15. What is Feasibility report ?
16. What is business plan ?
17. What is stability strategy ?
18. What is meant by the economic development ?

Turn over

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19. Define Moral legitimacy of entrepreneurs.
20. Define Stakeholder.
21. Define Evaluation.
22. Define project cycle.

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*

23. Write a note on small scale enterprise.
24. What are problems of entrepreneurship in travel trade ?
25. Write a note on tourism enterprise in Kerala.
26. What are the factors required for a site selection of business ?
27. Explain the network analysis.
28. What are the problems faced by an entrepreneur ?
29. What are the stages of entrepreneurship development ?
30. What is entrepreneurship and economic development ?
31. Write the concept of entrepreneurial development.

(6 × 4 = 24 marks)

Section D (Long Essay Type Questions)

Answer any **two** *questions.*

32. Briefly explain the family enterprise.
33. What are the factors required for a site selection of business ?
34. Write a note on tourism enterprise in Kerala.
35. What are the qualities of an entrepreneur ? Explain.

(2 × 15 = 30 marks)

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C 5027 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS–UG)

Tourism and Hospitality Management

SDC4AF29—AIRFARES AND TICKETING

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Questions)

Answer **all** *questions.*

1. Expand MCO.
2. Expand PTA.
3. Decode the city code BKK.
4. Encode the city Coimbatore.
5. Encode the city Amsterdam.
6. What is MPM ?
7. Expand OAG.
8. Expand TAA.
9. Name the two letter code for Spice Jet.
10. Expand BHC.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

Answer any **eight** *questions.*

11. What do you understand by a domestic airline ?
12. What do you understand by Visa On Arrival (VOA) ?
13. What is unaccompanied baggage ?
14. What is IROE ?
15. What is MPM ?
16. What do you understand by Daylight Saving Time ?
17. Name any two GDS providers.
18. What is BHC ?

Turn over

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19. What is circle trip ?

20. What is MPM ?

21. What is special fare ?

22. What is HIP ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*

23. Decode the following cities :

    (a) TRV ; (b) CJJ ; (c) CMB ; (d) COK ; (e) MAA ; (f) BOM.

24. Write the three letter codes for the following cities :

    (a) Toronto ; (b) Perth ; (c) Doha ; (d) Mexico city.

25. Briefly explain the growth and development of airline industry in India.

26. Decode the following cities :

    (a) SFO ; (b) DAC ; (c) BRU ; (d) AMS.

27. The local time in New Delhi, India is 1030 hrs on 15 January. What will be the local time in Dubai, UAE ?

28. What is *e*-ticketing ? Explain its merits and demerits.

29. Write an introduction to fare construction.

30. Brief about Daylight saving time.

31. What is global indicator–Explain.

(6 × 4 = 24 marks)

Section D (Long Essay Type Questions)

Answer any **two** *questions.*

32. Write an essay on Computerized Reservation Systems.

33. Briefly explain the different types of journeys with suitable examples.

34. Explain the salient features of Warsaw Convention, 1929.

35. List out the seven Global indicators and explain the purpose of Global indicator.

(2 × 15 = 30 marks)

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C 5026 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS–UG)

Tourism and Hospitality Management

SDC4FO28—FRONT OFFICE OPERATIONS

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type)

Answer **all** *questions.*

1. The guest without prior reservations is known as.
2. Name any budget hotel chain.
3. Expand ITDC.
4. Expand MCV.
5. A guest with a guaranteed booking who does not check in is know as.
6. Expand GRE.
7. Name the terminology status in which all the rooms in the hotel are sold.
8. A room with two single beds is known as.
9. Which hotel staff is responsible for maintaining guest history cards of regular guests and VIPS ?
10. Name the staff who is responsible for car parking of the guests.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*

11. List out the various types of meal offered by a hotel.
12. Who is a skipper ?
13. Who is DNCO ?
14. Who is a Night Auditor ?
15. What is CRS ?
16. What is free sale ?
17. Who is a concierge ?
18. Define walk-in guest.

Turn over

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19. What is confirmed reservation ?
20. What is a registration card ?
21. What is under-stay ?
22. What is meant by Amadeus ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*

23. Briefly explain the duties and responsibilities of front office supervisor.
24. Who is the Night auditor ? Explain his role, duties and responsibilities.
25. Explain the various room rates published by a hotel.
26. Write a note on various racks used in front office operations.
27. Briefly explain duties and responsibilities of GRE.
28. Briefly explain the role of internet in hotel industry.
29. Draw the organizational chart of front office department.
30. Write the procedure for assigning rooms.
31. How to handle group check-in ?

(6 × 4 = 24 marks)

Section D (Long Essay Type Questions)

Answer any **two** *questions.*

32. Briefly discuss about the essential qualities of front office staffs.
33. Write an essay on GDS and its importance in Hotel Industry.
34. Briefly explain the sources of reservation.
35. Briefly explain the importance of effective co-ordination of front office with other departments.

(2 × 15 = 30 marks)

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C 5025 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION
APRIL 2021

(CUCBCSS—UG)

Tourism and Hospitality Management

GEC 4ET 12—ECO TOURISM

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Mention the International Year of Eco-tourism.
2. Name the first Planned Eco-tourism destination in India.
3. Bandipur Tiger Reserve is in which district.
4. Write any four Eco-tourism products.
5. What is the logo of WWF ?
6. In which State Gulf of Mannar Bio-sphere Reserve situated ?
7. Eco-tourism is a part of which Tourism ?
8. Name any National Park from Tamil Nadu.
9. Mudumalai National Park is situated in which State of India ?
10. Periyar Tiger Reserve is situated in which district of Kerala ?

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is Carrying Capacity ?
12. Who is an Eco-tourism ?
13. What is Eco-lodge ?
14. What is Red Data Book ?
15. What is Biodiversity ?
16. What is a Mangrove ?

Turn over

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17. Write any *two* benefits of local participation in Eco-tourism.

18. What is a National Park ?

19. Give examples for Elephant Reserve National Park.

20. Name any *two* Eco-friendly Tourist Destinations in the world.

21. Which State is considered as the hub of Back Water Tourism ?

22. Define House Boat.

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Describe the economic benefits of Eco-tourism.

24. Write the advantages of Eco-tourism.

25. What do you mean by Sustainable Tourism ?

26. Give some ideas to develop tourism wihout affecting the environment.

27. Explain the scope of Eco-tourism development in Kerala.

28. Write the evolution of Eco-tourism.

29. The continuous denoding of forest reserves has led to global warming and green house effects—Comment.

30. Give a brief note on Thenmala Eco-tourism.

31. Kaziranaga National Park—a world heritage site is the home to one horned Rhinoceros—Explain.

(6 × 4 = 24 marks)

Section D (Long Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. List out the major Eco-tourism products and explain the characteristics of Eco-tourism products.

33. Explain how Eco-tourism helps in the sustainable development of areas.

34. Write an essay on major Eco-tourism destinations in Kerala.

35. Write an essay on Biosphere Reserves in India.

(2 × 15 = 30 marks)

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C 5024 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Tourism and Hospitality Mangement

GEC 4AR 11—CULTURE AND CIVILIZATION

Time : Three Hours Maximum : 80 Marks

I. أجب عن الأسئلة الآتية حسب الإرشادات **(12x ½ =6)**

1. ما هي أول منطقة انتشر فيها الإسلام في شبه القارة الهندية ؟
2. من هو المفكر الذي استخدم كلمة الثقافة بمقابل culture لأول مرة في اللغة العربية؟
3. أين تقع مدينة "شحر" ؟

وفق بين العمودين

4. جالينوس	الثقافة الإسلامية في الهند
5. زين الدين المخدوم	سواطع الإلهام
6. عبد الحي الحسني	تحفة المجاهدين
7. أبو الفضل الفيضي	منافع الأعضاء

اكتب عن الأسئلة الآتية

8. أكمل: 'قرابين الغناء' عنوان ترجمة عربية لرائعة طاغور .....
9. ما معنى 'ساموتري' ؟
10. من الذي نقل كتاب 'سيرك' إلى العربية ؟
11. من الملك الهندي المسلم الذي أنشأ مصانع للنسج والوشي والتطريز والنحت ؟
12. من هو مؤسس جامعة دار العلوم ديوبند ؟

II. أجب عن عشرة من الآتية في جملة أو جملتين **(10x2=20)**

13. ما هي الحضارة لغة ؟
14. تشتمل الحضارة الإسلامية في مفهومها على نوعين. ما هما ؟
15. 'شيرمان برومال' و'ساموتري' كلاهما يدلان على شخص واحد. كيف ؟

Turn over

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16. من الذي شرح 'استناكر الجامع' في العربية ؟
17. ماذا يصور الشاعر كُمارانا شان في قصيدة Veena Poovu ؟
18. ماذا تعرف عن الشاه ولي الله الدهلوي؟
19. أين ولد الشاعر أبوبكر ننمندا ؟
20. كيف يصف الشاعر أحمد شوقي مهاتما غاندي في قصيدته ؟
21. ما هو النوع الجديد من علوم الطب الذي عرّفه المسلمون للهنود؟ ومن الذي كان واحدا من رواده؟
22. اكتب اثنين من آثار الفن المعماري الجديد الذي أتى به المسلمون إلى الهند ؟
23. ماذا صار باعثا قويا للتحرك ضد نظام الطبقات السائد في الهند ؟
24. متى انتشرت الدعوة الإسلامية ظاهرة في شمال الهند ؟

III. اكتب الخلاصة عن ستة من الآتية (6x5=30)

25. 'الزهرة الساقطة'
26. تعريف 'أدورد تايلر' للثقافة
27. بناء المساجد العشرة الأولى في كيرالا
28. أهمية التعاون في تحصيل الغذاء
29. الحضارة الإسلامية حضارة أخلاقية
30. الملك المشار إليه في قصة ظهور الإسلام في كيرالا
31. اهتمام الملوك المسلمين بتحسين الحالة الاجتماعية في الهند
32. أبرز الزعماء المسلمين الذين لعبوا دورهم في الأعمال الإصلاحية والتربوية في الهند

IV. اكتب مقالة حول اثنين من الآتية (2x12=24)

33. تأثير الإسلام في المجتمع الهندي
34. غاندي في الأدب العربي
35. الحضارة الإسلامية
36. العمران البشري

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C 5022 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Tourism and Hospitality Management

GEC 4FN 11—TRANSLATION AND COMMUNICATION IN FRENCH

Time : Three Hours Maximum : 80 Marks

Section A

I. Choisissez la meilleure réponse :

1 La capitale de France est ———— (Marseille / Bruxelles / Paris)

2 Poulet rôti est un ———— (boisson / plat / dessert)

3 Céline Dion est née ———— (au Québec / à New York / à l'ile Maurice)

4 En France, il y a ———— (22 / 96 / 36 000) départements.

5 La SNCF signifie Société ———— (Normale/ Nationale / Nordique) des Chemins de Fer français.

6 Dans les écoles de France, on a les vacances de Noel au mois de ———— (décembre / mai / juillet)

7 En France, on prend le ———— (petit déjeuner / déjeuner / diner) entre midi et 13h30.

8 Je ———— (connais / habite / parle) la France.

9 ———— (La Grèce / La Suisse) a une frontière avec la France.

10 Il travaille ———— (à / de) Mumbai.

(10 × 1 = 10 marks)

Section B

II. Répondez aux questions suivantes :

11 Chassez l'intrus :

a) Chanter, finir, porter, parler.

b) Chanter, s'amuser, travailler, danser.

Turn over

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12 Chassez l'intrus :

a) Restaurant, rue, piscine, bar.

b) Montagne, lac, rivière, porte.

13 Complétez :

a) Quatre + cinq font _____.

b) J'habite à _____.

14 Complétez avec « le », « la », ou « les » :

a) cahier est sur _____ table.

15 Traduisez en français : He iscoming.

16 Traduisez en français : How are you ?

17 Traduisez en français : Whereis the book ?

18 Quelle et la traduction de :

a) Voyez-vous ?

b) A bientôt !

19 Traduisez en anglais :

a) Vous- habitez où ?

b) J'ai visité la tour Eiffel.

20 Traduisezenfrançais :

a) May I help you ?

b) Here is your coffee !

(8 × 2 = 16 marks)

Section C

III. Traitez CINQ sujets au choix :

21 Ecrivez les jours de la semaine.

22 Ecrivez les mois de l'année.

23 Complétez avec *est-ce que (qu') ou qu 'est-ce que (qu) :*

a) _____ tufais, cesoir ?

b) _____ Patricia et Ben viennent avec nous ?

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c) ———————— vous pourriez m'aider, s'il vous plait ?

d) ———————— tuveux du café ?

24 Ecrivez l'heure en toutes lettres :

a) 11h 00.

b) 3h 45.

c) 5h 30.

d) 6h 45.

25 Ecrivez en toutes lettres:

a) 19.

b) 41.

c) 89.

d) 100.

26 Complétez les phrases avec *pouvoir ou vouloir* à la forme qui convient :

a) Maman, on ———————— regarder la télé, s'il te plait ?

b) Désolé, je ne ———————— pas téléphoner à Kamel, je n'ai pas son numéro !

c) On regarde la télévision ou tu ———————— lire ?

d) Ah ! non ! On ne ———————— pas travailler ! On n'aime pas ça !

27 Traduisezenfrançais :

a) Happy to meet you.

b) I want a book.

c) How are you Sir ?

d) Whatisthere ?

28 Traduisez en anglais :

a) Nous venons de Paris.

b) Je prends du café.

c) Vous prenez le thé ?

d) Elle s'appelle Sophie.

(6 × 4 = 24 marks)

Turn over

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Section D

IV. Traitez DEUX sujets au choix :

29 Traduisez en anglais :

Au café, après le travail

Lucas : (*il chante*)

« A Paris comme à Bombay

Je ne suis pas un étranger

J'habite où on m'aime

En Chine, en Bohème... »

(à Melissa) Tu aimes ?

Melissa : J'aime beaucoup. Qu'est-ce que c'est ?

Lucas : Une chanson de Lucas Marti.

Melissa : Mais, Lucas Marti, c'est toi ! Tu écris des chansons ?

Melissa : Tu es musicien professionnel ?

Lucas : Non, je travaille dans une pizzeria... Et toi ?

Melissa : Oh, moi, je suis professeur dans une école de danse .... Mais j'écris des textes de chansons.

30. Traduisez en anglais :

Fanny Rochard travaille à Strasbourg, au Conseil de l'Europe. Son mari, Bertrand, travaille dans une banque. Ils sont une fille, Caroline. C 'est bientôt les vacances.

Fanny : Tu as vu ces prix ? 250 € la semaine au club Thalasso !

Bertrand : Et ce voyage au Mexique : 600 €, 600 € pour un voyage au Mexique !

Fanny : Oublie le Mexique.

Bertrand : Pourquoi ?

Fanny : C'est trop loin.

Bertrand : Comment « trop loin » ?

Fanny : Cette année, Caroline passe ses vacances chez Julie,

Bertrand : Et alors ?

Fanny : Et alors, quand ma fille passé ses vacances en France, je reste en France.

Bertrand : On peut faire la randonnée dans les Pyrénées. C'est plus près.

31. Ecrivez une carte postale. Vous présentez votre ville.

(2 × 15 = 30 marks)

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C 5014 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Software Development

SDC 4IT 14—ADVANCED COMPUTER NETWORKS

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Which ARQ protocol is used in TCP ?
2. UDP and TCP are both ———————— layered protocols.
3. Datagram socket rely on ————————.
4. Cells having the same sets of frequencies is called ———————— cells.
5. Bluetooth wireless technology is developed for ———————— Network.
6. Message queues are created in :

   (A) User space. (B) Kernel space.

   (C) Both (A) and (B). (D) None of the above.

7. Which is the fastest form of IPC ?

   (A) Shared memory. (B) Semaphore.

   (C) FIFO and Pipe. (D) Message queue.

8. The end point of a connection of computer network is ————————.

   (A) Socket. (B) Switch.

   (C) Bridge. (D) Gateway.

9. Which multiple access technique is used by IEEE 802.11 standard for Wireless LAN ?

   (A) CDMA. (B) CSMA/CA.

   (C) ALOHA. (D) None of the Above.

Turn over

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10. WiMAX provides ————————.

(A) Simple communication. (B) Half-duplex communication.

(C) Full-duplex communication. (D) None of the above.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is the main function of UDP ?
12. What is SMNP agent ?
13. What is Name Server ?
14. What is Inter Process Communication ?
15. What is the use of semaphore ?
16. List the top congestion control algorithms.
17. What is SSL ?
18. What are the parameters of *bind()* system call.
19. What are mobile stations ?
20. Describe Walsh table.
21. Why do you need a Geosynchronous satellite ?
22. List the features of GiFi.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is piggy-backing ?
24. Explain the basic SMTP functions.
25. Distinguish between Pipe and FIFO.
26. Explain TCP segment format.

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27. Describe how a socket is related to a port.

28. List and explain the types of sockets.

29. Illustrate reuse factor.

30. Explain PAN.

31. Write a note on GSM.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What is NFS? How NFS is implemented in TCP/IP ?

33. Draw and explain the TCP segment format.

34. Explain the socket system call for connection-oriented communication in detail.

35. Compare and contrast FDMA, CDMA and TDMA techniques.

(2 × 15 = 30 marks)

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C 5013 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Software Development

SDC 4IT 13—OPERATING SYSTEMS

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *marks.*

1. ———— is the expansion of JCL.
2. ———— is the entry to the process table to keep track of all the process.
3. In———— allocation each process is allocated a single continuous part of memory.
4. ———— is the only one directory that holds all the files in single-level directory structure.
5. ———— UNIX command is used or append information to the file.
6. Operating System is a ————.

   A) System software. B) Application software.

   C) Utility software. D) None of the above.

7. Process is a/an ————.

   A) Active entity. B) Passive entity.

   C) Past entity. D) None of the above.

8. ———— is the single large partition of available memory.

   A) Swap space. B) Address space.

   C) Hole. D) None of the above.

9. To store and retrieve files on the disk, the OS provides a mechanism is called ————.

   A) File Structure. B) Directory System.

   C) File System. D) None of the above.

Turn over

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10. ———————— command in UNIX is used to list all the files in the system.

A) Cat. B) Touch.

C) Tar. D) Is.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What are the objectives of an Operating System ?
12. What are the advantages of multiprogramming ?
13. List the advantages of distributed systems.
14. What is SJF scheduling algorithm ?
15. What are the states of a process ?
16. Explain logical address and logical address space.
17. What do you mean by fragmentation ?
18. What do you mean by spooling ?
19. Name any *three* disk scheduling policies.
20. Explain the different types of shells in UNIX.
21. Explain the options of *rm* command in UNIX.
22. What do you mean by kernel ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain time sharing operating systems.
24. Describe batch processing.
25. Explain the significance of round robin algorithm.
26. Describe the process control block in detail.
27. Explain paging with neat diagram.

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28. Explain about thrashing.

29. Explain file organization.

30. What are the functions of device management ?

31. What are the design goals of an operating system ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the various types of Operating System.

33. Explain deadlock and necessary conditions for deadlock occurrence along with example.

34. What do you mean by virtual memory ? Also explain demand paging.

35. Discuss briefly about memory management in UNIX.

(2 × 15 = 30 marks)

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C 5012 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Retail Management

SDC 4RM 14—RETAIL ADVERTISING AND SALES PROMOTION

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Product placements in the television programmes and movies is an example of :

   a) Branded entertainment.
   b) Advertisement.
   c) Brand contact.
   d) Pulsing.

2. Which tool of the promotional mix consists of short-term incentives to encourage the purchase or sale of a product or service ?

   a) Advertising.
   b) Direct marketing.
   c) Public relations.
   d) Sales promotion.

3. Point of purchase Ads are also known as :

   a) In-store Advertising.
   b) Green Advertising.
   c) Built-in Advertising.
   d) Stock Advertising.

4. Which of the following strategies is usually followed by B2C companies with respect to ?

   a) Push strategy.
   b) Blocking strategy.
   c) Pull strategy.
   d) Integrated strategy.

5. The large volume of advertising in a society is known as :

   a) Advertising clutter.
   b) Mass advertising.
   c) Deception.
   d) Large scale advertising.

6. ———————— is a measure of attachment that a consumer has to a brand.

   a) Brand loyalty.
   b) Brand equity.
   c) Brand association.
   d) Brand awareness.

Turn over

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7. Sales persons who want for the sales to come to them is known as :

   a) Transactional.
   c) Closers.
   b) Relational.
   d) Consultants.

8. Keeping consumers thinking about the product is the objective for which type of advertising ?

   a) Informative advertising.
   c) Psychological advertising
   b) Reminder advertising.
   d) Persuasive advertising

9. Series of advertisement messages that share a single idea or theme is :

   a) Advertisement campaign.
   c) Advertisement group.
   b) Advertising cluster.
   d) Advertisement series.

10. The content and context of a message contained in an advertisement is called ?

   a) Ad copy.
   c) Script.
   b) Body.
   d) Advertising appeal.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is Advertising ?
12. Define media planning ?
13. Mention two utilities of advertising in business field ?
14. What is media decision ?
15. Define copy writing.
16. Give a meaning of emotional appeal ?
17. Define trade promotion.
18. Define market research.
19. What is counter sale ?
20. What is patronage reward ?

(8 × 2 = 16 marks)

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Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

21. Explain the differences between advertisement and publicity ?
22. Explain the various kinds of advertising ?
23. Explain the types advertising agencies ?
24. Define trade promotion. Explain its common methods ?
25. Explain the concept of point of purchase display assistance ?
26. Explain the content of advertisement copy ?
27. What are the criteria for selecting advertising agencies ?
28. What is press advertising ?

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

29. Explain the nature and scope of advertising ?

Or

30. Define advertising management ? Explain its process ?
31. Define advertising appeal. Explain the types of advertising appeal ?

Or

32. Explain the methods of evaluating the sales promotion programme ?

(2 × 15 = 30 marks)

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C 5011 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Retail Management

SDC 4RM 13—ELEMENTS OF SALESMANSHIP

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Despite its potential strengths, public relations are often described as :

   a) Unethical business.
   b) Corrupt practice.
   c) Marketing stepchild.
   d) Cost drain that is not fruitful.

2. The type of trade-promotion tool in which the manufacturer takes a fixed amount off the list price on each case purchased during a stated period of time is called as :

   a) Discount.
   b) Allowance.
   c) Premium.
   d) Rebate.

3. ———————— is used heavily when introducing a new product category.

   a) Persuasive advertising.
   b) Reminder advertising.
   c) Inferential advertising.
   d) Informative advertising.

4. A specific communication task to be accomplished with a specific target audience during a specific period of time is called an :

   a) Advertising campaign.
   b) Advertising criterion.
   c) Advertising objective.
   d) Advertising evaluation.

5. Which of the following promotional tools is thought to be the most expensive to use ?

   a) Advertising.
   b) Public relations.
   c) Personal selling.
   d) Sales promotion.

Turn over

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6. The credibility of a sales promotion event is usually of :

   a) No consequence.
   c) High.
   b) Low.
   d) Medium.

7. Which type of promotion uses buying allowances, push money, and free goods?

   a) Consumer promotion.
   c) Trade promotion.
   b) Sales force promotion.
   d) Place promotion.

8. _____ is direct communications with carefully targeted individual consumers to obtain an immediate response.

   a) Personal selling.
   c) Public relations.
   b) Direct marketing.
   d) Sales promotion.

9. All of the following are commonly recognized promotion budget formats except :

   a) The affordable method.
   c) The LIFO method.
   b) The percentage-of-sales method.
   d) The objective-and-task method.

10. Which of these is not a sales promotion technique ?

   a) Loyalty card.
   c) Coupon.
   b) Bonus pack.
   d) Questionnaire.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 marks.

11. What is retail trading ?
12. Define Salesmanship.
13. What is Selection?
14. What is wholesale trading ?
15. State any *two* source of product information.
16. Discuss any *two* types of training ?
17. What is Price ?

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18. Discuss the life of product.

19. Who is government buyer ?

20. Give any *two* emotional factors influencing purchase of product.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

21. What are the functions of salesmanship ?

22. Differentiate between wholesale and retail.

23. Discuss the different types of non-financial incentives.

24. What are the objectives of sales man's training ?

25. What is the importance packing ?

26. What is published source of product information ?

27. How buyer differ from consumer ?

28. Discuss the different steps in sales presentation ?

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

29. Describe the term of selling and discuss different types of selling.

Or

30. Define buying motive and explain the types of buying motives.

31. Discuss the various qualities required for good salesman.

Or

32. Sales promotion is more superior than advertising, justify your answer.

(2 × 15 = 30 marks)

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C 5010 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Retail Management

GEC 4QT 12—QUANTITATIVE TECHNIQUES FOR BUSINESS

Time : Three Hours Maximum : 80 Marks

Part A (Multiple Choice Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Co-efficient of correlation measures ————————.
   a) Location. b) Variability.
   c) Concentration. d) Relation.
2. Regression lines are also called ————————.
   a) Correlation graph. b) Scatter diagram.
   c) Estimating lines. d) None of these.
3. Co-efficient of correlation measures ————————.
   a) Location. b) Variability
   c) Concentration. d) Relation.
4. In tossing a coin, getting head and getting tail are ————————.
   a) Mutually exclusive events. b) Simple event.
   c) Complementary event. d) All the above.
5. The two regression lines coincide each other when r = ————————.
   a) 0. b) – 1.
   c) + 1. d) None of these.
6. The relative frequency approach is also called ————————.
   a) Empirical approach. b) Statistical probability.
   c) Apsteriori probability. d) All the above.

Turn over

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7. An event whose occurrence is inevitable is called _____.

a) Impossible event. b) Uncertain event.

c) Sure event. d) None of these.

8. For a normal distribution :

a) Mean = mode. b) Mean = median.

c) Median + mode. d) All the above.

9. _____ is used as a test of goodness of fit.

a) Chi-square test . b) Regression analysis.

c) ANOVA. d) None of these.

10. If A and B are independent, P (A/B) is :

a) $P(A)$. b) $P(B)$.

c) $P(AB)$. d) None of these.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is Negative correlation ?
12. Define the term Extrapolation ?
13. What do you mean by SQC ?
14. Where will be the Regression lines meet ?
15. What is an Independent event ?
16. What is Sample point ?
17. There are 17 balls numbered from 1 to 17 in a bag. If a person selects one at random what is the probability that the number printed on the balls be an even number greater than 9.
18. If $P(A) = 2/5$ and $P(B) = 3/8$ $P(A \cap B) = 1/20$. Examine whether A and B are independent.
19. Write a short note on ANOVA.
20. State Baye's theorem.

(8 × 2 = 16 marks)

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Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

21. Describe the uses of quantitative techniques in business and industry ?

22. State different kinds of Correlation ?

23. Draft the limitations of Regression ?

24. The probability that A solves a problem in Statistics is 2/5 and the probability that B solves it is 3/8. If they try independently find the probability that (i) Both solve the problem ; (ii) None solves the problem ; (iii) At least one solves the problem.

25. The odds against X solving a business Statistics problem are 8 to 6 and odds in favour of student Y solving the same problem are 14 to 16. What is the probability that (i) Problem is solved ; (ii) Problem is not solved.

26. If 3% of electric bulbs manufactured by a company are defective, find the probability that in a sample of 100 bulbs, exactly 5 bulbs are defective.

27. Three cards are drawn from a pack of 52 cards. What are the probabilities that (i) exactly 2 ace cards ; and (ii) All the three cards are Kings.

28. Briefly explain the properties of Normal Distribution ?

(6 × 4 = 24 marks)

Part D (Long Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

29. Calculate the co-efficient of Rank correlation from the following data:

X	:	15	17	14	13	11	12	16	18	10	9
Y	:	18	12	4	6	7	9	3	10	2	5

30. Define Quantitative Techniques. Discuss the classification of quantitative techniques.

Or

31. Find the co-efficient of correlation from the following :

x	:	12	20	15	22	18	24	20	12	15	22
y	:	30	35	28	36	29	39	30	25	30	38

32. What is ANOVA ? Explain the uses and assumptions of Analysis of Variance ?

(2 × 15 = 30 marks)

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C 5009 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Pharmaceutical Chemistry

SDC 4PH C02—INDIAN DRUG REGULATORY GUIDELINE AND PHYSICAL PHARMACY

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. An information bulletin of a chemical that describes the properties, hazards, precautions for safe handling, emergency and first aid procedures and control measures is called a ————————.
2. The active mechanism involved in its function of silica gel as desicant is ————————.
3. DCGI stands for ————————.
4. ICOH stands for ————————.
5. First Edition of Indian Pharmacopoeia was published by ————————.
6. Insecticides Act in which year ?
7. Sieve number of fine powder is ————————.
8. Cutter mill works on the principle of ————————.
9. The efficiency of the ball mill is maximum at ———————— of its speed.
10. Particle size reduction ———————— the surface area of solid substance.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is the purpose of fume cupboards in a laboratory ?
12. What is the simplest method to ensure eye safety in a chemical laboratory ?
13. Mention the first aid that should be administered for a minor cut by a glass.
14. How does anhydrous calcium chloride function as a desiccant ?
15. Describe the role of DTAB.

Turn over

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16. What is ISO 9000 : 2000 ?
17. Write a note on the safe handling of pesticides.
18. What are Cosmetics ?
19. Write Kick's Law.
20. What are the advantages of cyclone separator.
21. Write down the principle of Ball mill.
22. What are the advantages of sieving method ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What are the first aid treatment for a person who suffers skin contact and eye contact with phenol ?
24. Mention some of the important good practices to maintain laboratory hygiene.
25. Explain the first aid to be administered to a victim of electric shock.
26. What are the phases of clinical trials ?
27. What do you mean by GMP ?
28. Write a note on physical hazards.
29. Explain the role and duties of drug inspector.
30. Write a note on Copy right.
31. Write a note on sedimentation.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Discuss the safe laboratory practices.
33. What are the stages of drug approval ?
34. Explain briefly about the workers duties and right.
35. Explain biological hazards and chemical hazards.

(2 × 15 = 30 marks)

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C 5008 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Pharmaceutical Chemistry

SDC 4PH C01—DRUG DESIGN AND PHARMACOLOGY

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer all questions.
Each question carries 1 *mark.*

1. Study of harmful effects of chemicals is called ————.
2. BBB stands for ————.
3. Give two examples of specific drugs.
4. What is antagonism ?
5. In limit test for iron purple colour is due to formation of ————.
6. Iodine is essential constituent of ———— hormone.
7. Most abundant alkaloid present in cocoa seeds is ————.
8. Two reflex medullary stimulants are ———— and ————.
9. Nitrous oxide alone will produce anesthesia only in ———— condition.
10. Malignant hyperthermia is seen in animals like ————.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions .*
Each question carries 2 *marks.*

11. Give a note on discovery of insulin.
12. What is drug synergism ?
13. What is lead and how it is modified ?
14. What is felicitated diffusion ?

Turn over

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15. Write a note on physiological role of zinc.
16. Give the preparation of dried aluminum hydroxide.
17. Explain the stages of anesthesia.
18. What are adverse effects of benzodiazepine ?
19. Give the synthesis of besiperidine.
20. What is phenacetin ?
21. What are the clinical uses of aspirin and paracetamol ?
22. What are selective COX II inhibitors ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain random screening of drug discovery.
24. How is a drug approved for marketing ?
25. Explain factors influencing dose of drugs.
26. Explain the mechanism of drug action.
27. Write a note on ferrous sulphate BP.
28. Give the synthesis of chlorodiazepoxide.
29. Write a note on centrally acting muscle relaxants
30. Write a note on allopurinol.
31. Give the synthesis of pethidine.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Briefly discuss on how new drugs are discovered.
33. Discuss the different types of epilepsy and anti-epileptic drugs.
34. Explain the synthesis of meprobamate, enflurane , tacrine, Piroxicam.
35. Discuss the various drugs used for gout.

(2 × 15 = 30 marks)

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C 5007 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Pharmaceutical Chemistry

GEC4PHC02—INORGANIC CHEMISTRY—III

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions and each question carries* 1 *mark.*

1. The anion that can be eliminated by strong heating before cation analysis ————.
2. The oxidation state shown by alkali metal in their compound is ————.
3. Copper when treated with dilute nitric acid reduces nitric add to ————.
4. Autoionisation of ammonia yields the ammonium ion and the ———— ion amide.
5. Which common anion is contained by pyrosilicates ?
6. The earth is protected from harmful UV radiations by the stratospheric ———— layer.
7. What is the term used to denote controlled combustion of the combustible ingredients of solid waste in air with a view to reducing the volume of waste.
8. What was the pet name of the atomic bomb that was dropped over Nagasaki ———— ?
9. What is the shape of XeO_2F_2 ?
10. Plaster of paris has the formula ————.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions and each question carries* 2 *marks.*

11. Cu (II) is precipitated as CuS in dil.HCl while Co (II) is precipitated as CoS in ammoniacal medium. Explain
12. Which has higher density - Na or K, Why ?

Turn over

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13. How does metallic character vary as we move down group 15 ?

14. Draw the structure of NO_2.

15. Mention two important uses of helium.

16. Write three different kinds of silicone polymers.

17. What are toxic effects of CO ?

18. What are solid wastes ?

19. Distinguish between biodegradable and nonbiodegradable solid wastes.

20. Give important uses of nitric acid.

21. Give two uses of sodium carbonate.

22. Draw the structure of peroxo disulphuric acid.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions and each question carries* 4 *marks.*

23. Give an account of precipitation in gravimetry.

24. Discuss anamolous behaviour of Li among alkali metals.

25. What is aquaregia ? Explain how gold is dissolved in it.

26. What are non-aqueous solvents ?

27. Explain the adverse consequences of plastic pollution.

28. Illustrate the basic nature of NH_3.

29. What are the characteristics of bio-degradable wastes ?

30. Give a method for the elimination of phosphate present in an inorganic mixture.

31. Explain basic character of alkaline earth hydroxides.

(6 × 4 = 24 marks)

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Section D

Answer any **two** *questions and each question carries* 15 *marks.*

32. (a) Explain different types of errors that arise in analytical experiments. Discuss the classification of errors.

    (b) Give the methods of minimisation of errors in quantitative analysis.

33. Discuss the structure of SO_3 molecule on the basis of hybridization.

34. Discuss the capability of SO_2 as solvent for ionic compounds and covalent compounds.

35. What are the various methods of producing utilisable energy from solid wastes ?

(2 × 15 = 30 marks)

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C 5006 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Pharmaceutical Chemistry

GEC4PHC01—PHYSICS—II

(2018 Admissions)

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions and each question carries* 1 *mark.*

1. A compact disc shows different colours in white light. This is due to ———.
2. The wave front getting diffracted in Fraunhofer diffraction is ———.
3. A transistor has ——— number of PN Junction diodes.
4. In a forward biased conduction a diode behave like ———.
5. Trajectory of a charged particle in a uniform electric field is ———.
6. At superconducting state, the material becomes ———.
7. In a diamagnetic material, magnetic susceptibility is ———.
8. What are nucleons ?
9. The lightest meson is ———.
10. In a radio transmission, the medium of transmission is ———.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions and each question carries* 2 *marks.*

11. State fermat's principle of least time ?
12. What is constructive interference ? What is the condition for it ?
13. How is the angular dispersion of grating related to the grating element ?
14. What is meant by ripple factor of a rectifier ?
15. Draw the circuit diagram of a CE and CB amplifier.
16. What is electrostatic shielding ?

Turn over

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17. What is Meissner effect ?

18. What are the magnetic elements of the earth ?

19. Why neutrons have magnetic moment ?

20. Write a short note on colour of quarks.

21. Explain band width of AM wave.

22. What are leptons? Give two examples.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions and each question carries* 4 *marks.*

23. Define resolving power of a grating, derive an expression for it.

24. White light is used in young's double slit experiment, the path difference between light from the slits reaching a point on the screen is 3×10^{-4} cm. Find the missing wavelength in visible region at this point.

25. Find the ripple factor of a full wave rectifier.

26. A centre-tap full wave rectifier is connected to a transformer secondary of the type 6-0-6 V. If the forward resistance of each diode is 4Ω and load resistance is 400 Ω. find the DC load current and efficiency of the rectifier.

27. Show that electric field is negative gradient of potential.

28. Explain the temperature dependence of resistivity of metals and semiconductors.

29. Write a note on magnetic elements of the earth.

30. What is the difference between stimulated emission and spotaneous emission ? Explain the working of LASER.

31. Obtain an expression for the instantaneous voltage of modulated wave.

(6 × 4 = 24 marks)

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Section D

Answer any **two** *questions and each question carries* 15 *marks.*

32. Explain the phenomenon of interference by plane film and hence account for the colours in thin films.

33. Briefly outline the working of an npn transistor. Discuss the different transistor connections using neat diagram mentioning current amplification factor in each case.

34. With the help of a diagram explain the working of a nuclear reactor.

35. Explain the theory of Carey Foster bridge. How can we determine the temperature coefficient of resistance using this bridge ?

(2 × 15 = 30 marks)

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C 5005 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Optometry and Ophthalmological Techniques

SDC 4VO 13—VISUAL OPTICS

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is Refraction ?
2. Aphakia produce ————.
3. The far point of a non accommodated hypermetropic eye is located ———— the retina.
4. The power of reduced eye is about ————.
5. The angle between the pupillary axis and visual axis is called ————.
6. Schiener principle is used in ————.
7. Far point of an emmetropic eye is at ————.
8. Range of accommodation is defined as ————.
9. Index hypermetropia is seen in ————.
10. Placido's disc is used to detect ————.

(10 × 1 = 10 marks)

Section B (Short Answer)

Answer any **eight** *questions.*
Each question carries 2 *mark.*

11. Define Depth of focus.
12. Define Sturm conoid ?
13. Define fogging ?
14. Write on Dynamic retinoscopy ?

Turn over

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15. Define Depth of field ?
16. What is Cycloplegic refraction ?
17. Define Streak Retinoscopy ?
18. What is Amplitude of accommodation ?
19. List *four* indications of cycloplegic refraction.
20. Comment about optical condition in myopia ?
21. What is Angle of convergence ?
22. What is the Subjective refraction ?

(8 × 2 = 16 marks)

Section C (Short Essay)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is reduced eye model ?
24. Discuss about Astigmatic fan test.
25. Write about Ocular refraction and spectacle refraction.
26. Explain about the Fresnel prism ?
27. Explain the Aetiology of Hypermetropia.
28. Briefly description about Regular Astigmatism ?
29. Explain about Pseudophakia ?
30. Explain about Presbyopia ?
31. Explain about Duochrome test ?

(6 × 4 = 24 marks)

Section D (Essay)

Answer any **two** *question.*
Each question carries 15 *marks.*

32. Discuss various methods of subjective verification of refraction ?
33. Discuss the optics of aphakia . Describe the advantages and disadvantage of spectacle prescription in a case of aphakia ?
34. Explain about Accommodation ?
35. Define retinoscopy and explain the pre-requisites for retinoscopy.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 5004 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Optometry and Ophthalmological Techniques

SDC 4DO14—DISPENSING OPTICS

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answer)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Which transposition are used to convert one form to another ?
2. ———— are supplementary lenses in a mounting that fastens to the framefront of a conventional pair of spectacle.
3. Normal IPD in an adult.
4. Unit of power.
5. Thick portion of a prism is called ————.
6. Refractive index of Flint glass.
7. ———— defect is caused by incomplete polishing.
8. Library temple is also known as.
9. 54D 20 Stands for.
10. Prentice Rule.

(10 × 1 = 10 marks)

Section B (Short Answer)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Explain plastic frame.
12. Explain about the lenticular lenses.
13. What is Vertex distance.
14. Define Executive bifocals.
15. Write on Hemianopic spectacles.
16. Define segment width and segment depth.

Turn over

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17. Define fused bifocals.
18. What is Hard and soft PALs.
19. Comment on ARC coatings.
20. Explain Tinted lenses.
21. Define Polarization.
22. Write on High Index lenses.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain about Aspheric lenses.
24. Write briefly on single vision, bifocal and multifocal lenses.
25. Write a note on photochromatics.
26. Define progressive additional lenses.
27. Explain about sports spectacles.
28. Explain about Boxing system.
29. Explain about Glass lens materials.
30. Explain about prismatic effect.
31. Write a note on Ptoric lenses

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write about plastic lens materials in deatail.
33. Explain about special purpose frames.
34. Write about parts of a frame with neat diagram.
35. Write a note on Faults in spectacles.

(2 × 15 = 30 marks)

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C 5003 **(Pages : 2)** **Name**.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Optometry and Ophthalmological Techniques

GEC 4ES 11—ENVIRONMENTAL SCIENCE

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answers)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What are in-situ methods of conservation ?
2. Explain greenhouse gas ?
3. The species which are confined only to a particular geographical area are called ————————.
4. Lichens are an indicator of ———————— pollution
5. 'World Environmental Day' is celebrated every year on :
6. What are the main constituents of biogas ?
7. The group of organisms which converts light energy into food are called ————————.
8. Write one disadvantage of flood.
9. Which part of the plant contains nitrogen fixing bacteria ?
10. In aquatic ecosystems, phytoplankton are considered as ————————.

(10 × 1 = 10 marks)

Section B (Short Answer)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is the importance of environmental protection acts ?. Name any *four*.
12. What is global warming ?
13. What is meant by keystone species ?
14. What do you mean by non-renewable resources ?
15. Give effects of radiation.
16. What is industrial waste ?
17. What is surface water ?

Turn over

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18. What are the air pollutants in automobile exhaust ?
19. What is waste reclamation ?
20. What are the levels of biodiversity ?
21. What is Biogas ? State any *one* advantage of using biogas.
22. State any *two* advantages of crop rotation.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Write a short note on the Chipko Movement.
24. Explain nuclear hazard.
25. What is marine pollution ?
26. Write a note on the GreenHouse Effect.
27. State two major threats to biodiversity.
28. Write a short note on Earthquake.
29. Impact of acid rain on the environment.
30. Write a short note on oil spills.
31. Write short note on Man-wildlife conflict

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Define Pollution.What are the causes of water pollution and how to prevent water pollution ?
33. Illustration in-situ and ex-situ conservation with examples.
34. Define ecosystem and describe components of the ecosystem of small freshwater ponds.
35. Explain alpha, beta and gamma patterns of biodiversity.

(2 × 15 = 30 marks)

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C 5002 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Optometry and Opthalmic Techniques

GEC 4C 012—COMMUNITY OPTOMETRY

Time : Three Hours Maximum : 80 Marks

Section A (Very Short Answers)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Public health is an ———————— field.
2. Expand PERT.
3. ———————— A's and ———————— C's are basically required for a sound PHC.
4. TPA means ————————.
5. Public health saves ———————— and improves ———————— of life.
6. Expand USAID.
7. DBCS means ————————.
8. There are ———————— P's of public health.
9. Expand CARE.
10. ———————— offers super- specialist care.

(10 × 1 = 10 marks)

Section B (Short Answers)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Name four types of health-economic evaluation.
12. What does micro-economics mean ?
13. What is secondary health care ?
14. What are different types of blindness ?
15. What is the goal of NPCB ?
16. Give any *two* examples of equitable distribution in access to health care in India.

Turn over

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17. What are the goals in health planning ?
18. Expand 5 P's of Public health.
19. Define Health Insurance.
20. List four tools used in health economic evaluation.
21. Name any *four* International Agencies of public health importance.
22. Definition of blindness under NPCB.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What are the core activities of public health ?
24. What are the functions of PHC ?
25. Explain trauma and foreign body.
26. Describe chemical injury in detail.
27. What are the roles of TPA in health insurance ?
28. What is the importance of health economics ?
29. What are the essential elements of primary health care ?
30. Expalin the different steps in health economic evaluation.
31. What is the purpose of health planning ?

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write an essay on the principles of Primary Health Care.
33. Describe basic OT practice ?
34. Write in detail on Human Resources Department.
35. Write elaborately on VISION 2020.

(2 × 15 = 30 marks)

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C 4997 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Multimedia

SDC4MM14—ADVANCED TECHNIQUES IN GRAPHICS AND ANIMATION

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Rendering.
2. Timeline.
3. 3D Modeling.
4. Anticipation.
5. FPS.
6. Character animation.
7. What is the file extension of 3d max ?
8. Who invented the use of cells ?
9. Who is known as the father of animated cartoons ?
10. Example for squash principle.

(10 × 1 = 10 marks)

Part B (Brief Answer Questions)

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. What is pivot ?
12. Name the models in Standard Primitives.
13. What is meant by Link ?
14. What are Boolean operations ?

Turn over

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15. Explain key frame animation ?
16. What do you mean by projection ?
17. What is the command panel ?
18. What is an auto key ?
19. Explain about cell animation.
20. What do you mean by motion capture ?
21. What is live action ?
22. Define key frames.

(8 × 2 = 16 marks)

Part C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is the purpose of Material ?
24. Describe interface of Autodesk 3ds Max.
25. Explain about polygons.
26. Explain about cell animation and computer animation.
27. Explain Path Animation.
28. Explain storyboard ?
29. Explain any three mediums of animation with examples ?
30. Explain linear and non-linear animation.
31. General view port concepts.

(6 × 4 = 24 marks)

Part D (Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain principles of animation.
33. Explain the factors which determine the quality of computer in animation.
34. Explain Photometric and standard lights.
35. What is kinematics ?

(2 × 15 = 30 marks)

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C 4996 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Multimedia

SDC 4MM 13—PRODUCTION AND POSTPRODUCTION

Time : Three Hours Maximum : 80 Marks

Part A

Answer all the **ten** *questions in one* **or** *two words.*
Each question carries 1 *mark.*

1. ———— is a device or computer program for encoding or decoding a digital data stream or signal.
2. Documentary drama also called as ————.
3. Where can you view your editing progress in the video software ?
   a) Timeline. b) File folder.
   c) Video clips. d) Editing effects folder.
4. What is the document that describes your needed camera set ups ?
   a) Shot list. b) Rule of third.
   c) Synopsis. d) Script.
5. ———— is a single 'take' on an image.
6. ———— is complementarity among all the elements.
7. ———— is sensed equilibrium among elements based on some criteria.
8. A play that utilizes episodic dramatic structure is most likely to feature which of the following elements ?
   a) A large cast of characters.
   b) A linear plot that follows a chain of cause and effect.
   c) A single locale.
   d) A time span that approximates real time.

Turn over

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9. Which shot can give a distorted perspective shot ?

10. ———————— is the smallest element of structural technique.

(10 × 1 = 10 marks)

Part B

Write short notes on any **eight** *of the following.*
Each question carries 2 *marks.*

11. What is a docudrama ?

12. What is depth of field ?

13. How to export video in editing software ?

14. What id OLE ?

15. Short note on Luminance.

16. What are the phases of post-production included in television.

17. Mention about types of conflict.

18. What is mise en scene ?

19. What is Sequence ?

20. What is story board ?

21. Short note on fundamentals of screen writing.

22. What are the stage of script ?

(8 × 2 = 16 marks)

Part C

Write short essays on any **six** *of the following.*
Each question carries 4 *marks.*

23. Explain three-act structure.

24. Explain fiction and non-fiction.

25. Define Compression.

26. Explain montage.

27. Write about editing principles.

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28. Explain different types of character.

29. What is dutch angel shot ?

30. Explain rule of third.

31. Write any *two* educational documentary ? Write short explanation.

(6 × 4 = 24 marks)

Part D

Write essays on any **two** *of the following.*
Each question carries 15 *marks.*

32. Explain editing taxonomy.

33. Short note on :

    a) Additive color.

    b) Hue.

    c) Saturation.

    d) Luminance.

    e) RGB.

    f) HSB.

34. Short note on :

    a) Camera.

    b) Lighting.

    c) Sound.

35. Write a script base on a theme must be "An old age home".

(2 × 15 = 30 marks)

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C 4995 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Logistics Management

SDC4LM15—EXPORT AND IMPORT POLICIES AND PROCEDURES

Time : Thee Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. NAFTA stands for ————.
2. IBRD also known as ————.
3. The WTO was established to implement the final act of Uruguay round agreement of ————.
4. Quantitative restrictions refer to limit set by countries to curb.
5. India is an ———— economy.
6. GATT was replaced by the ———— on 1st January 1995.
7. In balance of payment accounts, all goods exported and imported are recorded in ———— account
8. The world bank is also known as ————.
9. ———— institution is known as the 'soft loan window' of world bank.
10. Exports and Imports come under the purview of ———— department of Government of India.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is international business ?
12. What is export ?
13. What is balance of trade ?
14. What is turn key projects ?
15. What is management contract ?
16. What are Plurilateral agreements ?

Turn over

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17. What is APEC ?
18. What is free trade area ?
19. Write a note on FMS and FPS.
20. What is TRIMS ?
21. What is international leasing ?
22. What is contract manufacturing ?

(8 × 2 = 16 marks)

Part C (Short Essay questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What do you understand by bilateral agreements ?
24. Briefly explain GATT.
25. Write a note on TRIPs and TRIMs.
26. Explain the advantages of international trade.
27. Differentiate between domestic business and International business.
28. Explain the functions of EXIM bank.
29. Discuss the activities of IMF.
30. Explain the objectives and functions of NAFTA
31. State the objectives of World Bank.

(6 × 4 = 24 marks)

Part D (Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write an essay on the functions and working of the WTO.
33. Explain Agreement on Agriculture.
34. What are the different methods of entry into foreign market ?
35. Explain the objectives and functions of Asian development bank.

(2 × 15 = 30 marks)

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C 4994 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Logistics Management

SDC 4LM 14—INTERNATIONAL LOGISTICS MANAGEMENT

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Freight is typically measured by (select the wrong answer) :

   (a) Kg. (b) Inches.

   (c) Cube (Volume). (d) None of these.

2. Which is the latest technology used for tracking the consignment ?

   (a) RFID. (b) GPS.

   (c) GPRS. (d) None of these.

3. ———— sector is the backbone of Indian Economy.

4. ———— is important because it facilitates trade, exchange and travel.

   (a) Warehousing. (b) Transportation.

   (c) Logistics. (d) International business.

5. Which mode of transportation causes the maximum amount of loss and damage ?

   (a) Water. (b) Road.

   (c) Rail. (d) Pipeline.

6. For products with high level of uncertainty in demand, the following strategy is suitable.

   (a) Use of a faster mode of transportation.

   (b) Use of a slower mode of transportation.

   (c) Keeping a higher amount of cycle stock.

Turn over

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7. Technique in which the retailer does not process the order instead asks the manufacturer or wholesaler to ship the goods :

   (a) Order passing. (b) Drop passing.

   (c) Buck passing. (d) Drop shipping.

8. Poor supply chain management practices can an otherwise excellent marketing strategy .

   (a) Seriously damage. (b) Make SWOT analysis difficult for.

   (c) Keep people employed on. (d) Mean quarterly lessons for.

9. What are the five basic transportation modes ?

   (a) Air carrier, motor carrier pipelines, railways and water carriers.

   (b) Air carrier, motor carrier, railways, ocean vessels and dirigibles.

   (c) Air carrier, motor carrier, trucks, canals and robotics.

   (d) Air carrier, motor carrier, water routes, railways and trucks.

10. The transfer Manifest (TRM) must be issued by the airline or its handling agent ?

   (a) True. (B) False.

(10 × 1 = 10 marks)

Part B (Short answer questions)

Answer any **eight** *questions.*
Each question carries 2 marks.

11. What is logistics information system ?
12. What is cargo ?
13. What is marine insurance ?
14. What is containerization ?
15. What is port management ?
16. What is railway wagons ?
17. What is fleet management systems ?
18. What is repacking ?

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19. What are the duties of clearing agents ?
20. What is Tramp service ?
21. What is ocean linear conference system ?
22. What are the documents needed in road transport ?

(8 × 2 = 16 marks)

Part C (Short Essay questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Write a note on ICD.
24. Explain the types of roads in India.
25. Explain the role of intermediaries in shipping industry.
26. What are the characteristics of vessels ?
27. Explain the functions of international business.
28. Write a note on marine insurance of cargo.
29. Explain different cargo types ?
30. Explain port system and sub systems in containerization
31. Explain less than truckload business.

(6 × 4 = 24 marks)

Part D (Essay questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write a note on : (a) Clearing agents ; (b) Freight brokers ; (c) Stevedores ; and (d) Shipping agents.
33. Write a note on repacking and other value added service provided by logistics service providers.
34. What is Containerization. Explain different types of containers.
35. What is railway transport ? Explain the advantages and disadvantages of railway transport.

(2 × 15 = 30 marks)

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C 4993 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Logistics Management

SDC 4LM 13—SUPPLY CHAIN MANAGEMENT

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. The purpose of LSCM is :

   (a) To provide customer satisfaction.

   (b) Improve quality of a product.

   (c) Integrating supply and demand management.

   (d) Increase production.

2. Managing Supplier relationship is a strategic responsibility :

   (a) True. (b) False.

3. "3PL" involves using a supplier to provide ——— services.

   (a) Marketing.

   (b) Design.

   (c) Logistics.

   (d) Contract manufacturing.

4. The final phase of the order cycle is called order ———.

   (a) Picking and assembly. (b) Delivery.

   (c) Receiving. (d) Replenishment.

5. Certificate of origin is issued by :

   (a) Export Promotion Council. (b) Chamber of Commerce.

   (c) Port Trust. (d) None of these.

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6. The creation across the supply chain and its markets of a co-ordinated flow of demand is the definition of ————.

(a) Order cycle (b) Order management.

(c) Demand management. (d) Supply chain management.

7. Major pricing strategies does not include ————.

(a) Competition based pricing. (b) Customer value based pricing.

(c) Cost based pricing. (d) Discount and bonus pricing.

8. The ability of logistics management to satisfy users in terms of time, dependability, communication, and convenience is the definition of ————.

(a) Customer service. (b) The order cycle.

(c) A perfect order. (d) Customer satisfaction.

9. A Exit port is where cargo is :

(a) Loaded in the shipyard. (b) Cargo to be unloaded.

(c) Cargo to be kept in Marshalling. (d) None of these.

10. Who is origin of FOB origin shipment ?

(a) Carriers. (b) Buyers.

(c) Sellers. (d) Third parties.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. Define supply chain management.

12. What is transportation management ?

13. What is third part logistics ?

14. What is SCM Trade-Offs ?

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15. What is vendor identification ?

16. What is integrated logistics management ?

17. What is global sourcing ?

18. What is information flow in SCM ?

19. What is sourcing in SCM ?

20. What is warehousing ?

21. What is supplier chain performance ?

22. What is selection in supplier management ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*

Each question carries 4 marks.

23. Explain the role of supply chain management.

24. Write a note on impact of internet on SCM.

25. Briefly explain warehouse management.

26. Briefly explain material flow and distribution in SCM.

27. Briefly explain supplier quality management.

28. Briefly explain SCM building blocks.

29. Briefly explain customer service management.

30. Explain supply chain uncertainties in SCM.

31. Explain manufacturing logistics in SCM.

(6 × 4 = 24 marks)

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Part D (Essay Questions)

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Write a note on:

    (a) supplier relationship management.

    (b) supplier Quality management.

    (c) supplier chain performance.

33. What is supply chain management ? Explain the functions and importance of supply chain management.

34. Write a note on SCM network design and facilities development.

35. What is order fulfilment? Explain the steps of order fulfilment

(2 × 15 = 30 marks)

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C 4992 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Logistics Management

GEC4ME12—MANAGERIAL ECONOMICS

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions..*

Each question carries 1 *mark.*

1. ———— is a reduction in the rate of inflation.
2. ———— is phenomenon characterized by employment and inflation.
3. Under ———— inflation, price rise slowly.
4. Elasticity between two separate points of demand curve is called ———— elasticity.
5. A product with more number of substitute enjoys ———— demand.
6. Forecasting demand on the basis of opinions of experts and distributors is known as ————.
7. The study of entire economic system is called ————.
8. The cost of best alternative foregone is ———— cost
9. The mobility of inputs of production is possible in ———— market.
10. Marginal revenue curve of a monopolist is ————.

(10 × 1 = 10 marks)

Part B (Short answer questions)

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. What is demand curve ?
12. What is monopolistic competition ?
13. What is barometric pricing ?
14. What is unemployment ?
15. What is consumer surplus ?
16. What law of diminishing marginal utility ?

Turn over

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17. What is elasticity of supply ?

18. What is consumer behaviour ?

19. What is cardinal utility analysis ?

21. What is supply ?

22. What is deflation ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Differentiate between economics and managerial economics.

24. What is perfect competition ? Explain the necessary conditions for perfect competition.

25. Briefly explain Barometric pricing.

26. Explain the basic characteristics of Indian economy.

27. Write a note on penetrating pricing.

28. Explain the role of cost in pricing.

29. What is oligopoly ? Explain the characteristics of oligopoly.

30. What is monopoly ? Explain the characteristics of monopoly.

31. Explain the properties of indifference curve.

(6 × 4 = 24 marks)

Part D (Essay questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write a note on major issues faced by Indian economy.

33. What is managerial economics ? Explain the nature and scope of managerial economics.

34. What is pricing policies ? Explain different pricing methods.

35. What is macroeconomics ? Explain the scope and importance of macro economics.

(2 × 15 = 30 marks)

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C 4991 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Jewellery Designing

SDC4 JD 14—GOLDSMITHING AND MANUFACTURING

Time : Three Hours Maximum : 80 Marks

Section A (Very Short / Objective Question)

Answers **all** *questions.*

1 *mark each.*

1. ——— is a technique in which enamel doesn't have a metal backing.
2. Most of the enamels are fired at temperatures between ———.
3. ——— enamel, became a popular way to depict Christian saints during the reign of Roman Empire.
4. Bimaran Reliquary is decorated with rare images of ———.
5. Sterling silver contains ——— % of silver ?
6. The earliest known enamelled objects were made in ——— in around the 13th century BC during the Mycenaean period.
7. ——— is a technique in which lines are drawn through a layer of unfired enamel, exposing the fused enamel underneath.
8. Which Russian jeweller exhibited his Imperial Easter Eggs at the Paris exhibition of 1900 ?
9. In the Byzantine Empire, jewellery was crafted with an emphasis on which of the following ?
   (a) Utility. (b) Solid gold.
   (c) Gemstones. (d) Large size.
10. Who wears Ring of the Fisherman ?

(10 × 1 = 10 marks)

Turn over

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Section B (Short Answer)

Answer any **eight** *questions.*

Each question carries 2 marks.

11. What is Goldsmithing ?
12. What is ring stick ?
13. Describe different cleaning tools in jewellery.
14. What is paillon ?
15. What is En bosse ronde ?
16. What is lapidary ?
17. Write short notes on Multi-element twist.
18. How casting can be done ?
19. What is sawdust patina ?
20. Write a note on Matte finish.
21. Differentiate between roasting and smelting.
22. Explain the use of ring sizer.

(8 × 2 = 16 marks)

Section C (Short essays)

Answer any **six** *questions.*

Each question carries 4 marks.

23. What are the characteristics of sheet metal ?
24. What is the use of a mandrel ?
25. How do you solder jewellery ?
26. How do you anneal gold ?
27. What technique is used to make wire-decorated earrings ?
28. What is jump ring ?

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29. How do you make an S-loope ?

30. How do you make wire-decorated earrings ?

31. Discuss anodizing titanium.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Give an account of earliest goldsmithing.

33. Describe in detail a jewellers bench.

34. What is a dome ? How can you make a dome ? Give its uses in jewellery.

35. Discuss the steps involved in the manufacturing of machine chains.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4990 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Jewellery Designing

SDC4 JD 13—DIAMOND GRADING AND SORTING

Time : Three Hours Maximum : 80 Marks

Section A (Very Short / Objective Question Answers)

Answer **all** *questions.*

1 *mark each.*

1. Which diamond mine's huge production influenced the world market in the late 1980s ?
2. Vast quantities of small, inexpensive diamonds suitable for low-cost, mass-market jewellery are mined in ————.
3. A surface indentation with tiny, root-like feathers penetrating the stone is called a ————.
4. A solid mineral body enclosed within a diamond (or other gem) is called ————.
5. A diamond's recut style is largely determined by ————.
6. If a diamond's pavilion, depth percentage is 39.0 percent, its pavilion angle is approximately ————.
7. The crystal planes most suitable for cleaving a diamond are the ———— planes.
8. If a diamond weighs 1.83 ct and its price is $ 13,725, what is its per-carat price?
9. Total number of facets in R.B.C. without culet is ————.
10. The crown height expressed as a percentage of average of girdle diameter is known as ————.

(10 × 1 = 10 marks)

Section B (Short Answers)

Answer any **eight** *questions.*

Each question carries 2 marks.

11. Why isn't it always possible to determine the colour origin in green diamonds ?
12. Where in the earth's structure are the best conditions for diamond formation ?

Turn over

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13. What happens to diamonds once they reach the surface ?

14. What's the purpose of a diamond's culet ?

15. Write short notes on Specific Gravity of diamond.

16. What are lower girdle facets in R.B.C ?

17. What is meant by average girdle diameter ?

18. Differentiate between polish and finish.

19. What is meant by Sparkle ?

20. Comment on the diamond mining in middle age.

21. What is 'culet in bezel 'pattern' ?

22. What are the guidelines to give 'very good' cut grade ?

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*

Each question carries 4 *marks.*

23. What are the possible causes of diamond colour ?

24. How do star facets affect a diamond's appearance ?

25. How are simulants different from synthetic and natural diamonds ?

26. How did the brilliant cut develop ?

27. Where does alluvial mining still take place ?

28. How does formation of diamond affect value ?

29. How do geologists locate diamond sources ?

30. What are the reasons to repolish or recut a diamond ?

31. Why viewing environment is very important in diamond grading ?

(6 × 4 = 24 marks)

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Section D (Essays)

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Explain Bowing method of table length estimation. Draw neat sketches.

33. Draw and mark the faces of R.B.C. and comment on the number of facets.

34. What is the correct adjustment factor to use when estimating the weight of an emerald cut diamond with the following dimensions : Length = 8.40 mm., Width = 5.59 mm., and Depth = 2.85 mm.

35. Calculate an estimated total depth percentage for the following stone : Average girdle diameter = 4.45 mm, Crown height percentage = 15.5%, Girdle thickness percentage = 7.0 %, Pavilion depth percentage = 45.5 %.

(2 × 15 = 30 marks)

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C 4989 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Gemmology

SDC 4GM 14—PEARLS AND CULTURING OF PEARLS

Time : Three Hours Maximum : 80 Marks

Draw neat sketches wherever necessary.

Section A (Objective Type Questions)

Answer all **ten** *questions.*
Each question carries 1 *mark.*

1. 'Pearl Sac Theory' was written by :

   (a) Tatsuhei Mise. (b) Mishima Tokuhichi.

   (c) Kokichi Mikimoto. (d) Tokichi Nishikawa.

2. Black-lipped oyster that produces Tahitian pearls.

3. The scientific name of Akoya pearl oyster is ————————.

4. The tool used for trimming the mantle strip on both edges, to remove unwanted tissue and to sharply cut the tissue into small bits of the required size.

   (a) Scalpel. (b) Shell Speculum.

   (c) Forceps. (d) Spatula.

5. Producing cultured pearl depends on a surgical procedure called ————————.

6. What is the Moh's hardness of pearl ?

7. Which country has produced the most South Sea pearls and mother of pearl ?

   (a) Japan. (b) Burma.

   (c) Australia. (d) China.

8. What does the term "Baroque Pearl" mean ?

9. The chemical formula of pearl is ————————.

Turn over

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10. High-quality Keshi pearls are noted for their :

(a) High luster. (b) Unique shapes.

(c) Iridescence. (d) All of the above.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is meant by conditioning process ?
12. Write a short note on Fresh water pearls.
13. What is Nacre ?
14. What is Hinge in pearl oyster ?
15. What is Periostracum layer in oyster's shell ?
16. What are Baroque pearls ?
17. What are Keshi pearls ?
18. Write a note on Long Lines System.
19. What is Shell Speculum ?
20. What are the features of molluscs ?
21. What is pearl diving ?
22. Write a note on influence of pearl farming on environment.

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Differentiate between Natural and Cultured pearls.
24. Write notes, on : (a) P. margaritifera ; and (b) P. fucata.
25. Write a note on the distribution of Pearl Oysters.
26. Write a note on the Taxonomy of Pearl Oysters.
27. Write notes on : (a) Lancet-cum graft lifting needles ; and (b) Nucleus lifting needles.

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28. Explain the role played by pearls in human culture.

29. Give a brief description of how much you can expect to earn from a pearl harvest.

30. Explain whether there is a standardized grading system for cultured pearls.

31. Describe the treatments done on a pearl.

(6 × 4 = 24 marks)

Section D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Describe Fresh water pearl production.

33. Describe the life cycle of a pearl oyster with the help of neat diagram.

34. Give an account on the colour and size of pearls.

35. Discuss how the quality of a pearl can be judged and how to choose pearls.

(2 × 15 = 30 marks)

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C 4988 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Gemmology

SDC 4GM 13—ADVANCED GEMMOLOGY—Paper III

Time : Three Hours Maximum : 80 Marks

Draw neat sketches wherever necessary.

Section A (Objective Type Questions)

Answer all **ten** *questions.*
Each question carries 1 *mark.*

1. What is the birthstone of December ?
2. Peridote is the birthstone of ————————.
3. A baby's zodiac sign is Virgo. His zodiac stone is :
   (a) Beryl. (b) Amethyst.
   (c) Carnelian. (d) Onyx.
4. Cat's eye is the birthday stone of :
   (a) Friday. (b) Sunday.
   (c) Thursday. (d) Monday.
5. The process of cutting and polishing gems is called ————————.
6. Topaz is the zodiac birthstone of:
   (a) Cancer. (b) Libra.
   (c) Taurus. (d) Sagittarius.
7. The diameter of a slab saw :
   (a) 6 to 10 inches. (b) 16 to 24 inches.
   (c) 4 inches. (d) 12 inches.

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8. The finest cameos and intaglios made of sea shells have traditionally come from :

   (a) Sri Lanka. (b) Germany.

   (c) Madagascar. (d) Italy.

9. Strongly coloured opaque stones such as black onyx, lapis lazuli, turquoise and tiger eye are most commonly used for ————————.

10. The chemical formula of the gemstone polishing agent 'Tripoli'.

(10 × 1 = 10 marks)

Section B (Short Answer Type Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is a Rough ?

12. What is the use of oil or water in sawing ?

13. Give three characteristic identification properties of the birthstone of April.

14. Give three identification properties of the birthstone of Aquarius.

15. What is a trim saw ?

16. List out the minerals in Moh's hardness scale in ascending order.

17. What are jig saws ?

18. What is a Preform ?

19. What is the application of belt sander ?

20. Why is tumbling applied to gems ?

21. What is a Doublet ?

22. What is a 'Cameo' ?

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Write a note on the development of birthstone culture.

24. Describe the process of grinding in lapidary works.

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25. Give an account of the various equipments for gem cutting.

26. Write a note on abrasives and their significance in gem cutting.

27. Differentiate between inlays and intarsias.

28. Describe beads and spheres.

29. Describe truing saw disks.

30. Give a brief account of dopping.

31. Describe horizontal laps.

(6 × 4 = 24 marks)

Section D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Name the birthstones of September, October and November. Give an account of their identification properties.

33. What are the birthstones of the zodiac signs Gemini, Leo and Libra ? Describe their characteristic identification properties.

34. Describe cabochon cutting highlighting on the different types.

35. Describe facetted cutting and its preference over other gem cutting techniques.

(2 × 15 = 30 marks)

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C 4987 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Food Science

SDC 4FS 14—TECHNOLOGY OF BEVERAGES

Time : Three Hours Maximum : 80 Marks

I. Answer the following. Answer all questions :

1 Define fruit Nectar.

2 Expand RO.

3 Define Hypertonic Drinks.

4 What is Oolong Teas ?

5 What is Aerate water ?

6 What is Natural spring water ?

7 Define Wine.

8 What is Ale ?

9 Expand ORS.

10 Give a dis-advantage of Caffeine.

(10 × 1 = 10 marks)

II. Answer the followings. Answer any *eight* questions :

1 What is Instant Coffee ?

2 Define Packaged Drinking water and expand FSSAI.

3 Differentiate Drip coffee from Vacuum coffee.

4 Write the chemical composition of Tea.

5 Define Hard drinks. Give one example.

6 Differentiate Squash from Cordial.

7 Differentiate between Ale and Lager.

Turn over

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8 List the ingredients used in Soft drinks.

9 Define vacuum coffee and decaffeinated coffee.

10 What are Distilled Spirits ?

11 Write the common preservatives used in fruit squash.

12 Differentiate Beer from Toddy.

(8 × 2 = 16 marks)

III. Answer the followings. Answer any *six* questions :

1 What is artificial sweetener ? Write its application. Give two examples.

2 Expand BIS and write its certification process for packaged drinking water.

3 Write in detail about the different types of coffee drinks.

4 Write the prospects of beverage industry in the country.

5 Define Mineral water and write about flavor water's demand and consumers' acceptance.

6 Write short notes on fermented alcoholic beverages with example.

7 Described carbonated water and its uses.

8 Define Whey. Explain alcoholic whey beverages.

9 Discuss the factors affecting the quality of Beer.

(6 × 4 = 24 marks)

IV. Answer the followings. Answer *two* questions :

1 What are the quality parameters of water for soft drink preparation ? How do go for quality evaluation of raw and processed water.

2 Define Wine. Write the different types of equipment used in brewing and distillation.

3 List out the different types of fruit juice beverages. Write the steps involved in preparation of fruit squash.

4 Explain what drinking water importance and need. Write the procedure to get BIS certification for packaged drinking water.

(2 × 15 = 30 marks)

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C 4986 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Food Science

SDC 4FS 12—TECHNOLOGY OF CEREALS, PULSES AND OIL SEEDS

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *the following.*
Each question carries 1 *mark.*

1. Scientific name of Linseed.
2. The percentage of lipid in rice ?
3. What is aromatic rice ?
4. Minimum acceptable range of rice amylose.
5. Scientific name of bread wheat.
6. Name any 2 gluten protein.
7. Name any *five* minor millet crop in India.
8. What is percentage of endosperm in wheat ?
9. Differentiate Maida and Atta.
10. Minimum acceptable range of milling ?

(10 × 1 = 10 marks)

Part B

Answer any **eight** *of the following.*
Write briefly on each question carries 2 *marks.*

1. Solvent extraction.
2. Cleaning stages of wheat milling.
3. Tempering
4. Which variety is used in bread making and why ?

Turn over

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5. Notes on Neutralization of oil.
6. Principles of Paddy separator and short notes thereon.
7. Functions of parboiling.
8. Why cereals are supplemented with pulses in general Indian diets ?
9. Define bran and endosperm of wheat.
10. Brown rice.
11. Screw press.
12. List out the proteins present in wheat.

(8 × 2 = 16 marks)

Part C

(*Short Essay Type Questions*)
Answer any **six** *of the following.*
Each question carries 4 *marks.*

1. Draw the flow chart of wet milling process.
2. Write note on sources of edible oils.
3. General chemical composition of wheat.
4. Write note on "Satake" paddy separator.
5. Production of puffed chickpea.
6. Describe different methods in Pulse milling.
7. Draw the flow diagram of modern rice milling.
8. Draw the flow chart of rice bran oil extraction.
9. List out the functions of cleaner in Rubber roller, Sheller, Husk aspirator, Paddy separator and Polisher.

(6 × 4 = 24 marks)

Part D (Essay Type Questions)

Answer any **two** *of the following.*
Each question carries 15 *marks*

1. Essay on wheat milling.
2. Describe the process of Malting and advantages over normal flour in case of baby food.
3. Differentiate wet and dry method of pulses.
4. Write essay on the processing of oil seeds.

(2 × 15 = 30 marks)

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C 4985 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Food Science

GEC 4FN 12—FOOD CHEMISTRY AND NUTRITION

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Name two factors responsible for emulsion instability.
2. Functions of lipase ?
3. Name two enzymes used in the food industry.
4. Write about two deficiencies of vitamin C.
5. What is a triglyceride ?
6. What is degumming ?
7. Define under nutrition.
8. What are the different factors responsible for the rancidity of food items ?
9. What is pectin ?
10. Write two examples for emulsions.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Define essential amino acids.
12. Define gums with examples.
13. Name the basic food groups.
14. Write about the deficiency of Vitamin A.

Turn over

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15. Difference between monosaccharides and polysaccharides.

16. Which are the different steps involved in the refining of oils ?

17. Which are the different properties of solutions ?

18. Functions of minerals in our body.

19. What is anthocyanin ?

20. What is the hydrogenation of oil ?

21. How are proteins made from amino acids ?

22. Importance of essential fatty acids in our diet.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Differentiate between under nutrition and malnutrition.

24. How are carbohydrates digested and absorbed in the body ?

25. Write about the classification of carbohydrates with examples.

26. What is the denaturation of proteins ?

27. Write in detail about Kjeldahl's method ?

28. Write in detail about the structure of the protein.

29. Write about the refining of oils and fats in detail.

30. Write in detail about :

    (a) Chlorophyll.

    (b) Anthocyanins.

31. Write about Vitamin C.

(6 × 4 = 24 marks)

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Section D

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Write an essay about digestion and absorption of basic nutrients.

33. Write an essay about different methods for the qualitative analysis of protein.

34. Write in detail about different pigments in the food.

35. Write in detail about :

    (a) Hydrogenation.

    (b) Rancidity.

    (c) Polyunsaturated fatty acids.

(2 × 15 = 30 marks)

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C 4984 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Food Science

GEC 4HR 11—HUMAN RESOURCE MANAGEMENT

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is job description ?
2. What do you mean by KAIZEN ?
3. What is sensitivity training ?
4. List out any *two* objectives of manpower planning.
5. What is Placement ?
6. What is formal appraisal ?
7. What do you mean by replacement transfer ?
8. Who is a HR manager ?
9. What do you understand by code of discipline ?
10. What is meant by forced distribution method ?

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Write any two demerits of external source of recruitment.
12. What is the meaning of compensation management ?
13. What is patterned interview ?
14. How job analysis is differing from job evaluation ?

Turn over

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15. What are the causes of indiscipline ?

16. Write up any *two* objectives of induction.

17. What is Retraining ?

18. What is meant by grievance redressal ?

19. What is career development ?

20. What do you understand by selection of personnel ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

21. How to control absenteeism in an organisation ?

22. State the essentials of a good trade test.

23. Explain the role of HR manager in grievance handling.

24. Mention the limitations of manpower planning.

25. Explain the recent trends in recruitment.

26. Describe the process of job evaluation.

27. What are the limitations of an employment interview ?

28. State the differences between HRM and HRD.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

29. Explain the functions and scope of HRM

30. Discuss the methods and types of training.

31. Explain the process and problems of performance appraisal.

(2 × 15 = 30 marks)

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C 4983 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Fish Processing Technology

SDC 4AQ 15—QUALITY CONTROL, INSPECTION AND CERTIFICATION IN SEA FOOD

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Family of *E. coli* is ————————.
2. Raw crustaceans are referred to as green. (True/False)
3. Oysters are best bought live and shucked just before serving. (True/False)
4. Major fungal toxin associated with stored food products is ————————.
5. Disposable gloves should be worn by workers handling which foods :
   a) Raw chicken being placed in a deep fryer.
   b) Sandwich bread for immediate service to customers.
   c) a) and b).
   d) None of the above.
6. Which anti-oxidant is abundant in citrus fruit :
   a) Carotenoid. c) Tocopherol.
   b) Ascorbic acid. d) Flavonoid.
7. Bacterial growth is generally impossible when water activity reduces below :
   a) 0.80. c) 0.60.
   b) 0.70. d) 0.90.

Turn over

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8. A fish batch has been withdrawn from the market by the fish inspectors and directed towards the production of fish meal for livestock. Which type(s) of loss is it about ?

   a) Quality.
   b) Market focus.
   c) Physical.
   d) All of the above.

9. Ideally, fish should be stored at what temperature ?

   a) 2-4 degree C.
   b) 0 degree C.
   c) 18-24 degree C.
   d) 4-6 degree C.

10. When purchasing fresh seafood, it is best to buy :

   a) Enough to last 4-5 days.
   b) Only enough seafood that will be used within 1-2 days.
   c) Enough seafood to last the week.
   d) Whatever will fit in the coolroom if it is on special.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 marks.

11. Chemical changes during fish spoilage.
12. Pink in cured products.
13. What is Indole test ?
14. What is SSOP ?
15. Importance of quality of ice.
16. Define available chlorine.
17. What is bacterial smear ?
18. Explain spoilage indices.
19. What is flat sour ?
20. Which are the major spoilage bacteria of fish ?
21. What is meant by quality ?
22. What is the effect of drying on bacteria present on fish ?

(8 × 2 = 16 marks)

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Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Microbial indices of fish quality.
24. What are pre-requisite programmes of HACCP ?
25. Water quality and its importance in seafoods.
26. Explain the concept of critical control point.
27. What is MPN ?
28. Physical methods of assessing fish quality ?
29. Raw material quality is very important in seafoods, why ?
30. Which are the seven principles of HACCP ?
31. Bacteriological standards of seafood for export.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Describe the methods of isolation of Salmonella in seafood.
33. Explain SSOP and its advantages.
34. Write on different methods available on quality evaluation of seafood.
35. What is meant by hazard with respect to HACCP ? Write on different hazards in seafoods.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4982 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Fish Processing Technology

SDC 4AQ 14—FISHERY BYPRODUCTS AND VALUE ADDITION

Time : Three Hours Maximum : 80 Marks

Section A (Objective Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is nutritional importance of fish oil ?
2. What is fish peptone ?
3. How fish hydrolysate is prepared ?
4. Classify batter.
5. What is Carrageenan ?
6. Name two value added fishery products.
7. What is Ckikuwa ?
8. Name the fish widely used for the preparation of surimi in the world.
9. Expand FPC.
10. What is fermented silage ?

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Explain the packaging of fish meal.
12. Describe the dry rendering of fish meal.
13. How does FPC differ from fish meal ?
14. Commercial preparation of surimi.
15. By-products.
16. What are the storage conditions of fish meal ?

Turn over

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17. What are the uses of fish hydrolysate ?
18. What is isinglass ?
19. How is fish silage made ?
20. How is FPC used ?
21. What are fish oils ?
22. What is beche-demer ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain production and utilization of fish silage.
24. What raw material is used to make FPC ?
25. What raw material is used to make FPC ? How is FPC made ?
26. Explain the preparation of fish oil.
27. Explain the production and utilization of fish waste.
28. How is fish silage used ?
29. Explain the preparation of glucosamine hydrochloride.
30. Explain the method of preparation of chitosan.
31. Value added products from surimi.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the production and nutritional importance of fish oil.
33. What is FPC ? Explain different methods of production, properties and types of FPC.
34. Explain the production and uses of surimi.
35. Describe methods of production of fish meal.

(2 × 15 = 30 marks)

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C 4981 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Fish Processing Technology

SDC4AQ13—ECONOMICS AND MARKETING IN SEAFOOD TRADE

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Microeconomic theory deals with :
   (a) Economic behaviour of individual economic decision making units.
   (b) Economy as a whole.
   (c) Trade relations.
   (d) Economic growth of the society.
2. In a mixed economy which sector(s) is/are found :
   (a) Private only. (b) Public sector only.
   (c) None. (d) Both (a) and (b).
3. Price elasticity of demand of product will be more elastic if it :
   (a) Has no substitutes. (b) Has number of substitutes.
   (c) Is an item of necessity. (d) is life saving product.
4. Capital in economics means :
   (a) Factor of production.
   (b) Fund brought in by the entrepreneur.
   (c) Investment in shares, bank deposits.
   (d) All the above.
5. ——— is known as father of economics.
   (a) Adam Smith. (b) Professor A Samuelson.
   (c) Alfred Marshall. (d) J. R. Hicks.

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6. Which of the problem is not a central problem of a society ?

   (a) What to produce. (b) How to produce.

   (c) For whom to produce. (d) What to eat.

7. The opportunity cost of capital investment is ————.

   (a) Sacrifice of current consumption.

   (b) More consumption of luxury items.

   (c) Lower capital growth in future.

   (d) Wastage of resources.

8. Macroeconomics is the study of :

   (a) Inflation. (b) Unemployment.

   (c) Growth. (d) All of (a), (b) and (c) above.

9. During the recessionary phase of a business cycle :

   (a) The natural rate of unemployment.

   (b) Potential national income will exceed actual national income.

   (c) Actual national income will exceed potential national income.

   (d) The real rate of interest will exceed the nominal rate of interest.

10. The slope of total variable cost curve equals :

    (a) AVC. (b) MC.

    (c) AC. (d) MPP.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*

Each question carries 2 marks.

11. Risk and uncertainty in business.

12. What is MSY ?

13. Market surveys.

14. Types of markets.

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15. Moral hazard.
16. Law of diminishing marginal utility.
17. Adverse selection.
18. Cost components in fishing.
19. Discounting method.
20. Adverse selection.
21. Average annual rate of return.
22. Perfect competition.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Market segmentation.
24. Discounting method.
25. Market surveys.
26. Price spreads in fish marketing.
27. Economic profit Versus Business profit.
28. Elasticity of demand.
29. Pay back period.
30. Goods and services.
31. What are the principles applied in price determination in fish marketing.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Briefly explain the economic theory of common property fisheries.
33. What is the basic economic problem? Identify the central economic problems in terms of fisheries economics and explain any one of the central economic problems of fishery economy be solved with the help of price mechanism.
34. Define fisheries economics and explain the component structure of commercial fisheries.
35. Explain economic and biological effects of fishing under open access and managed fisheries.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4980 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Fish Processing Technology

GEC 4FP D04—FOOD PRODUCT DEVELOPMENT AND ANALYSIS

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. A manufacturer with a product in the decline stage of the product life cycle might decide to ———— if it has reason to hope that competitor's will leave the industry.

   a) Maintain the product without change.

   b) Drop the product.

   c) Harvest the product.

   d) Delay planning.

   e) Search for replacements.

2. An attractive idea must be developed into a ————.

   a) Test market. b) Product strategy.

   c) Product image. d) Product concept.

   e) Product idea.

3. During which stage of new product development is management most likely to estimate minimum and maximum sales to assess the range of risk in launching a new product ?

   a) Concept testing. b) Test marketing.

   c) Business analysis. d) Product development.

   e) Marketing strategy development.

4. Increasing profits will most likely occur at which stage of the PLC ?

   a) Introduction. b) Product development.

   c) Decline. d) Maturity.

   e) Growth.

Turn over

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5. The team-based new product development approach is faster because departments work closely together through ————————.

a) Cross-functional teams.
b) The help of a consultant.
c) Team efforts.
d) Departmentalization.
e) A step-by-step process.

6. Product Specifications are :

a) Instructions about how to prepare the food.
b) Details about the ingredients, size and packaging required to manufacture food.
c) Explained in the manufacturer's production flow chart.
d) The legal requirements for producing food.

7. During which step is a break-even point decided when developing a food product ?

a) Idea screening.
b) Primary research.
c) Feasibility study.
d) Product specification.

8. What is the purpose of a design brief in food product development ?

a) To state the project aims.
b) To identify problems in developing the project.
c) To name the product to be developed.
d) To propose the marketing plan.

9. ———————— calls for testing new product concepts with groups of target consumers.

a) Concept development.
b) Concept testing.
c) Idea generation.
d) Idea screening.

10. ———————— is a period of slow sales growth as the product is introduced into the market. Profits are non-existent in this stage because of the heavy expenses of product introduction.

a) Growth
b) Product development
c) Maturity
d) Introduction

(10 × 1 = 10 marks)

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Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Define product. Suggest and explain a system for classifying products.
12. In which way understanding of product classification helps in marketing ? Discuss.
13. Differentiate between consumer products and industrial products.
14. Discuss the scope and significance of product management function in today's dynamic marketing environment.
15. What are the various internal and external sources of new product ideas available to a company ?
16. What are the major steps involved in NPD?
17. What different objectives does 'Concept Testing' meet ?
18. Discuss the factors to be taken into account when deciding whether or not to launch a new product.
19. Identify the five primary sources of product innovation.
20. What are the limitations of test marketing ?
21. Discuss the steps involved the economic analysis of a new product concept.
22. Discuss the product focused *Vs* market focused organizations.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. In which way understanding of product classification helps in marketing ?
24. Discuss the role of product manager.
25. What are the major bottle necks in new product development ?
26. Explain the concept of product management along with its importance.
27. Explain the relationship between competition marketing and product management
28. Discuss the factors to be taken into account when launching a new product.
29. What are the advantages and disadvantages of product oriented organization and market oriented organization ?

Turn over

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30. What is the relationship between product management and marketing management ?

31. Describe the product classification of consumer products.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the biochemical methods for estimation nutritive value of foods.

33. Discuss about the basic principle and concept of food product development ?

34. What are the factors to be considered while developing a new product ? Explain.

35. Explain the following:

    a) Conventional food packaging materials used and the criteria for selection.

    b) The pricing strategies available for new products.

(2 × 15 = 30 marks)

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C 4979 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Fish Processing Technology

GEC4FB04—FOOD BIOTECHNOLOGY

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. When an organism is modified using gene technology, the organism is referred to as a :

   (a) Genetically modified organism. (b) Very modified organism.

   (c) Generally modified organism. (d) Gently modified organism.

2. Give the scientific name of silver pomfret.

3. Non-protein part of an enzyme is called :

   (a) Co-enzyme. (b) Co-factor.

   (c) Substrate. (d) Activator.

4. Mutations can be induced with :

   (a) Gamma radiations. (b) Infrared radiations.

   (c) Ethylene. (d) None of these.

5. Which of the following is correctly matched ?

   (a) Apiculture - Honey Bee. (b) Pisciculture - Silk moth.

   (c) Sericulture - Fish. (d) Aquaculture - Mosquitoes.

6. The genetically modified Brinjal in India has been developed for :

   (a) Enhancing shelf life. (b) Insect resistance.

   (c) Drought resistance. (d) Enhancing mineral content.

Turn over

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7. The enzyme employed for amplification of DNA during PCR is commercially obtained from :

   (a) Trichodermareesei. (b) Bacillus licheniformis.

   (c) Streptococcus pyogenes. (d) Thermusaquaticus.

8. Transformation method of plants and animals in which plants and animals are given shock is known as :

   (a) Micro injection. (b) Genome reading.

   (c) Electroporation. (d) Genome engineering.

9. Cytoplasm of bacteria contain smaller rings of DNA called as :

   (a) Chromatin. (b) Chromatid.

   (c) Pyramid. (d) Plasmid.

10. Which of these vitamin is associated with the coenzyme biocytin ?

   (a) Nicotinic acid. (b) Thiamine.

   (c) Biotin. (d) Pyridoxine.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Give four microbial enzymes used as food additives with their application.
12. Explain the characteristics of gene cloning vectors.
13. Define mutagenesis.
14. What is the significance of single cell protein ?
15. Write down the application of HPLC in food analysis.
16. What are the applications of tissue culture ?
17. Discuss possible use of biopreservatives in food.
18. Explain enzymatic hydrolysis of proteins.
19. What are the modification and use of corn syrup ?
20. What are the essential factors for algal growth ?
21. What are the applications of GLC in food analysis ?
22. Explain the use of immobilized enzyme in food bio-technology.

(8 × 2 = 16 marks)

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Section C

Answer any **six** *questions.*

Each question carries 4 *marks.*

23. Describe the structure of a DNA molecule.
24. Explain the applications of recombinant DNA technology in environmental protection.
25. Explain different types of mutation.
26. What is HPLC ? Give a neat diagram of a typical system of HPLC.
27. Explain the production of any *one* of biopreservatives.
28. List the reasons for the wide application of micro-organisms in food biotechnology processes.
29. Give specific examples for the applications of modern biotechnology in food processing.
30. Write down the prospects of SCP in the food chain. What are the barriers for acceptance of SCP in food ?
31. Briefly explain how biopreservatives are different from antibiotics.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Explain the use of biotechnology for the production of enzyme.
33. Write notes on :
    (a) Recombinant DNA techniques.
    (b) Cell and tissue culture.
    (c) Genetically modified plants and animals.
34. Explain the applications of biotechnology in food waste management and development of value added products.
35. Explain ethical concerns, safety and regulatory issues of biotechnological products.

(2 × 15 = 30 marks)

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C 4978 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Fashion Technology

SDC4FT16—ENVIRONMENTAL TEXTILES

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Lyocell is a regenerated ————

   (a) Bio polymer. (b) Chemical.

   (c) Medicine. (d) Energy drink.

2. ———— is cotton that has been bred to have colors other than the yellowish off white typical of modern commercial cotton fibres.

   (a) White cotton. (b) Off white cotton.

   (c) Coloured cotton. (d) Black cotton.

3. The textile ———— process is characterised by the high consumption of resources like water, fuel and a variety of chemicals in a long process sequence that generates a significant amount of waste :

   (a) Manufacturing. (a) Design.

   (c) Checking. (d) Testing.

4. In which of these states does the jute plant grow.

   (a) Punjab. (b) West Bengal.

   (c) Tamil Nadu. (d) Kerala.

5. Find out the one which is not a eco friendly fiber.

   (a) Hemp. (b) Jute.

   (c) Bamboo. (d) Fortel ecospun.

Turn over

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6. Fortel ecospun fabric was introduced in which year ?

   (a) 1995. (b) 1992.

   (c) 1993. (d) 1990.

7. Bt cotton was approved by the ———— government in 1997.

   (a) Indian. (b) American.

   (c) Chinese. (d) Northern.

8. Coloured cotton was launched by ————.

   (a) Angel Sanchez. (b) Isaac newton.

   (c) Galileo. (d) Robert hook.

9. An ———— identifies products or services proven environmentally preferable overall.

   (a) Eco label. (b) Stickers.

   (c) Posters. (d) Brochures.

10. Consumer sensitivity to the environment is essential for ———— programs to be effective.

    (a) Eco labeling. (b) Stickers.

    (c) Posters. (d) Brochures.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. What is spider silk ?

12. What is an ecology ?

13. What is corn fibre ?

14. What are the limitations of organic cotton ?

15. How was the evolution of Indian textile industry ?

16. What do you mean by exporting ?

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17. What is bio textile ?

18. What is the role of government in combating child labour ?

19. List out any *four* international textile brands ?

20. What is the application of ISO 14021 ?

21. List out any four enzymes used in the textile industry

22. What is an eco-friendly product ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*

Each question carries 4 *marks.*

23. Explain the various criteria of eco labelling briefly.

24. What is a hybrid cotton ? Explain.

25. Explain the importance of bio technology in textiles.

26. Explain the uses of pineapple fibres ?

27. What are the environmental impacts of the textile processing ? Explain.

28. Explain the role of cotton in the Indian textile industry.

29. Write a short note on conventional cotton.

30. Which are the sub sectors of textile industry ? Explain.

31. Explain the properties of ramie fibre.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Write about the growth of Indian textile industry in detail ?

33. Explain the production process of organic cotton and conventional cotton ?

34. Explain the role of bio technology in textile industry in detail.

35. What are the various eco-friendly products and explain the different types of eco labels.

(2 × 15 = 30 marks)

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C 4977 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Fashion Technology

SDC 4FT 15—APPAREL PRODUCTION AND QUALITY CONTROL

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Expand IE :

   a) Import Export.
   b) Industrial engineering.
   c) Information Extraction.
   d) Information Environment.

2. One of the following is a manual method of spreading ?

   a) Fully automatic spreading.
   b) Hand spreading with hook.
   c) Semi automatic machine.
   d) None of these.

3. ———————— is a process of determining a most efficient layout of pattern pieces for a style, fabric, an distribution of sizes.

   a) Pattern making.
   b) Drafting.
   c) Consumption.
   d) Marker making.

4. Which sewing machine part applies pressure consistently on fabric as the sewing takes place.

   a) Feed dogs.
   b) Presser foot.
   c) Hand wheel.
   d) Throat plate.

5. Expand TQM :

   a) Training Quality Management.
   b) Total Quality Management.
   c) Total Quality Movement.
   d) Technical Quality Measures.

Turn over

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6. Expand ASTM ?

   a) American Standard test Method.

   b) American Society for Testing and Materials.

   c) American Society for Testing and Management.

   d) Average Size of Test Measurement.

7. Expand AQL :

   a) Allotted Quality Level. b) Acceptable Quality Level.

   c) Accurate Quality Level. d) Adoptable Quality Level.

8. ———————— is assessed basically by deriving either the variation along the length of a yarn in the mass per unit length or variation in diameter.

   a) Yarn unevenness. b) Yarn count.

   c) Twist testing. d) Yarn evenness.

9. What is TQM ?

   a) Training Quality Management. b) Total Quality Management.

   c) Total Quality Movement. d) Technical Quality Measures.

10. ———————— certification level of WRAP is valid for 6 months ?

   a) Platinum. b) Gold.

   c) Silver. d) None of these.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 marks.

11. What kind of sewing machines are used in apparel manufacturing industry ?

12. Define Grading.

13. What is marker making ?

14. What are the different types of cutting machines in apparel industry ?

15. Define Standards.

16. What is the purpose of textile testing ?

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17. Define tearing strength ?
18. List out the principles of WRAP ?
19. What is quality control ?
20. Write about the necessity of TQM in apparel industry ?
21. What are BIS ?
22. How SA 8000 prohibits child labour ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Briefly explain the 4 departments in apparel industry ?
24. Explain the factors to be considered during fabric spreading ?
25. Explain the quality parameters for fabric ?
26. Describe defects and the 3 categories.
27. Explain BSI ?
28. Explain the work procedure of ISO ?
29. Explain the importance of marker making ?
30. Explain the role of apparel merchandiser in apparel industry ?
31. Explain the quality parameters for yarn and fibre in detail.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the need of industrial engineering in apparel industry ?
33. Explain the cutting machines used in apparel industry ?
34. Explain standards and different international quality standards ?
35. Explain WRAP in detail ?

(2 × 15 = 30 marks)

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C 4976 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Digital Film Production

DFC4FP15—MULTI-CAM PRODUCTION

Time : Three Hours Maximum : 80 Marks

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Arrangement of elements in frame is called ————.
2. ———— reflects how our video is planned.
3. Fill light.
4. DSNG.
5. Reflector.
6. Story board.
7. In-line monitoring.
8. Two shot.
9. High angle.
10. MLS.

(10 × 1 = 10 marks)

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. Differentiate tracking and crane shot.
12. Three point lighting.
13. Camera movements.
14. Differentiate film and sensor.
15. What is Head space and Nose space.
16. Write on various camera angles.

Turn over

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17. What are the factors affecting Depth of Field.
18. Differentiate natural and artificial lighting.
19. What are the steps of screenplay ?
20. What are the uses of tripod ?
21. What is audio monitor ?
22. Zoom in and Zoom out.

(8 × 2 = 16 marks)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What are the duties and responsibilities of programme director ?
24. Briefly explain on multi cam production.
25. Explain the types of shots.
26. Elaborate frame, shot, scene and sequence.
27. Is script as a necessary thing to a TV show ?
28. "Cinema gets a visual form through the eyes of a cameraman'. Comment.
29. How will you shoot for a documentary ?
30. A cinematographer should be a good director. Comment.
31. Explain on signal transmission.

(6 × 4 = 24 marks)

Answer any **two** *questions*
Each question carries 15 *marks.*

32. Explain the importance of planning in a programme production.
33. Lighting up a scene defines the skill of a cinematographer. Elaborate.
34. Digital film making has affected the filmmaking in a better way. Elucidate.
35. Elaborate the different stages of a TV programme production.

(2 × 15 = 30 marks)

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C 4975 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Digital Film Production

DFC 4FP 14—INTRODUCTION TO SOUND DESIGN

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Lavalier microphone.
2. RCA represents ————————.
3. Speed of sound in air.
4. Define Audio.
5. Wavelength.
6. Pitch.
7. XLR.
8. Mechanical noise.
9. Moving coil microphone.
10. Pick up patterns.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Write short note on audio wave propagation.
12. What are sound effects ? Give one example.
13. Difference between music and sound.
14. What is a Transducer ?
15. What is location sound recording ?
16. Explain the working principle of a Speaker.
17. What is frequency range of sound ?

Turn over

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18 What is the importance of Syncing an Audio ?

19 Define Treble.

20 Make a note on audio cables.

21 What are stereo sound and mono sound ?

22 What is Low pitch ?

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23 What you understand by the term " Gain stages".

24 What are the different types of Audio filters ?

25 What is the main significance of choosing right microphones ?

26 What is sound sensitivity ?

27 Explain noise.

28 Explain the working principles of dynamic microphone.

29 Explain the importance of audio in film ?

30 Define sound, frequency, pitch, amplitude and velocity.

31 What are the different purposes of an audio mixer ?

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32 Give a detail note on different type of microphones on the basis of its pickup pattern.

33 Write an essay on sound wave propagation.

34 What are Sound fx and its application in film industry ?

35 What is the importance of acoustic treatment in an audio recording studio ?

(2 × 15 = 30 marks)

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C 4974 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Digital Film Production

DFC 4FP 13—ADVANCED VISUAL EDITING

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Time line.
2 Continuity.
3 Importing.
4 NTSC.
5 Transition.
6 Rendering.
7 Image sequence.
8 Master shot.
9 Non-Linear Editing.
10 Freeze frame.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions in two* **or** *three sentences.*
Each question carries 2 *marks.*

11 What is meant by visual Effects ?

12 What is Rule of Thirds ?

13 What is Montage ?

14 What is the difference between Linear and Non Linear editing ?

15 What is Kuleshov Effect ?

16 What is the use of Establishing shot ?

17 Difference between composite and component video ?

18 How will you Edit an Interview ?

19 What is the contribution of Lumiere brothers ?

Turn over

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20 What is the use of colour correction ?

21 What are the different types of montages ?

22 Write about the editing techniques of Alfred Hitchcock.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23 What are the various types of Effects usedin editing ?

24 Write about any *two* editors from Malayalam film industry.

25 Explain the 7 rules of editing.

26 What are the differences between Act, Sequence, Scene and Shot ?

27 Is it necessary to follow a shooting script ?

28 Briefly explain the process of Tele-cine and reverse Tele-cine.

29 Elaborate cut, dissolve, jump cut and match cut.

30 An editor should be a good director. Comment.

31 What is meant by Visual Art ?

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32 Write on Soviet montage principle.

33 Write about the use of Sync sound in latest movies.

34 Digital Editing have made the filmmaking easier. Explain.

35 Explain the advantages and disadvantages of Spot editing.

(2 × 15 = 30 marks)

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C 4973 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Broadcasting and Journalism

SDC 4BJ 14—MULTIMEDIA ANIMATION AND MOTION GRAPHICS

Time : Three Hours Maximum : 80 Marks

Section A Objective Type Questions)

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Fill the pair as per the previous relation :

   Tint : Video Effect

   Wipe : ————.

2. Which of the following is the file format extension supporting alpha channel enabled video ?

   (a) .mp4. (b) .wma.

   (c) .mov. (d) .avi.

3. Pick the odd one out :

   (a) Flash. (b) After Effects.

   (c) 3 Ds Max. (d) Illustrator.

4. Which of the following is the file extension of a Photoshop file? ?

   (a) .pss. (b) .psd.

   (c) .jpeg. (d) .pdf.

5. ASF stands for :

   (a) Advanced Systems File. (b) Advanced Systems Formula.

   (c) Advanced Systems Format. (d) Advanced Selection Format.

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6. PAL stands for :

   (a) Phase Alternate Line. (b) Phase Automatic Line.

   (c) Phase Automated Line. (d) Phase Alternate Level.

7. Which of the following is a web designing software ?

   (a) Adobe Dreamweaver. (b) Page maker.

   (c) MS Power Point. (d) HTML.

8. Animation is :

   (a) Digital illustration.

   (b) Sequential images in rapid succession.

   (c) Vector Illustration.

   (d) Sequential digital video playback.

9. The amount of space between lines of type is called :

   (a) Leading. (b) Kerning.

   (c) Tracking. (d) *h* Cloning.

10. What is the resolution preferred for an image on the web ?

    (a) 300 ppi. (b) 256 ppi.

    (c) 128 ppi. (d) 72 ppi

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. Motion Graphics.

12. Adobe Premiere Pro.

13. Cinema 4D.

14. UID.

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15. Raster Image.
16. Generate Stroke Effect.
17. 4K Video.
18. Frame rate.
19. Unicode.
20. Augmented Reality.
21. Object Tracking.
22. Opacity.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Define Multimedia. Which are the major multimedia applications used in the industry ?
24. Differentiate between 2D animation and 3D animation. Which are the software used for creating 2D and 3D Animations ?
25. What is meant by Animation ? Explain different animations with examples.
26. Differentiate between Vector and Raster files.
27. What is a GIF ? How does it differ from other media files ?
28. What is meant by User Interface Design ? Provide example.
29. Which are the different stages of developing a mobile application ?
30. Write a note on the features of Adobe Flash Professional,
31. Which are the major multimedia tools used in E-Learning ?

(6 × 4 = 24 marks)

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Section D (Essays)

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Define multimedia and elucidate - the contribution of different multimedia platforms to the education sector at various levels.

33. Trace the origin, history and development of multimedia, animation and motion graphics. Analyse the use of graphics in media today.

34. What is meant by multimedia authoring tools ? Elaborate on different types of multimedia authoring tools with their purpose and function, also provide examples for each.

35. Aesthetics and contentare equally important in E-learning platforms. Explain the statement describing various multimedia tools that help improve the aesthetics of the E-learning.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4972 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Broadcasting and Journalism

SDC 4BJ 13—TELEVISION BROADCASTING

Time : Three Hours Maximum : 80 Marks

Section A (Objective Type Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. DSNG stands for ————.

2. Pick the odd one out :

   (a) Asianet News. (b) Mazhavil Manorama.

   (c) Mathrubhumi. (d) Twenty Four.

3. State whether True *or* False : Victers is owned by Doordarshan.

4. The introduction to a News Story read by the anchor is called :

   (a) Lead. (b) Intro.

   (c) Anchor Link. (d) None of the above.

5. The person responsible for preparing the rundown is :

   (a) Reporter. (b) Anchor.

   (c) Bulletin Producer. (d) Chief Editor.

6. The Major light source in three-point lighting is :

   (a) Fill Light. (b) Key Light.

   (c) Back Light. (d) Background Light.

7. Which of the following microphone is preferred while recording a bite in a moving bus ?

   (a) Handheld RF. (b) Wired Microphone.

   (c) Lapel. (d) None of the above.

Turn over

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8. Which of the following is not a News Agency ?

(a) PTI. (b) ANI.

(c) CNN. (d) Reuters.

9. Which of the following should be given highest priority in a news story ?

(a) Quality. (b) Timeliness.

(c) Accuracy. (d) Story Angle.

10. Fill the pair as per the previous relation :

Point Blank : Asianet News

Nere Chovve : ————.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

Answer any **eight** *questions.*

2 *marks.*

11. Television News Bureau.
12. BBC.
13. NTSC.
14. ENG.
15. AnchorLink.
16. CNN-IBN.
17. Panel Discussion.
18. Super Imposition.
19. Prime Time.
20. Media Ethics.
21. Ministry of Information and Broadcasting.
22. Virtual Reality.

(8 × 2 = 16 marks)

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Section C (Short Essays)

Answer any **six** *questions.*

4 *marks.*

23. Compare among News Channels, Entertainment Channels and Infotainment Channels.

24. List out and explain the roles and responsibilities of departments associated with a live news bulletin production in a Television Channel.

25. What are the essential qualities of a Broadcast Journalist ?

26. Explain the structure of a 30 minute Television News bulletin. What are the techniques used to manage time ?

27. News bulletin producer should be a good teamleader - Explain the role of a bulletin producer in producing a live news bulletin.

28. Compare between a live news production and live programme production. What are the major differences between each in terms of technical and production aspects ?

29. VFX techniques have made television production easier—Do you agree with the statement ? Justify your answer.

30. Content aired over television is more credible than that shared over social media platforms Comment and justify your answer.

31. Compare between any two news based programmes aired in two different Malayalam Television channel. Explain the features and drawbacks (if any) of each.

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*

15 *marks.*

32. The hierarchy in a television channel comes with responsibilities - Analyse the statement and explain the roles and responsibilities of people from handling different departments in a Television News channel.

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33. What are the roles of news agencies in Broadcast Media ? List down and prepare notes on different national and international news agencies.

34. All news anchors are Broadcast Journalists but not all journalists are anchors - Examine the statement and explain the qualities and responsibilities of a news anchor who is also being a Broadcast Journalist.

35. Graphics is important in Television News and Programme production - Note down different purposes of using graphical elements in a news and programme production. Analyse the role of Graphics Department in a news channel.

(2 × 15 = 30 marks)

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C 4971 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Broadcasting and Journalism

GEC 4AP 11—ADVERTISING AND PUBLIC RELATIONS

Time : Three Hours Maximum : 80 Marks

Section A

Objective Type Questions.

Answer **all** *questions.*

1 *mark.*

1. Advertisers seek to give a product a personality that is unique, appealing and appropriate the personality given is known as :

   (a) Brand Loyalty. (b) Unique Image.

   (c) Selling Property. (d) Brand Image.

2. Advertisements try to discourage young people from using drugs or tobacco or encourage people to adopt safer, healthier lifestyles, are examples of ——— Ads.

   (a) Institutional Ads. (b) Informational Ads.

   (c) Consumer Ads. (d) Impressive Ads.

3. Writing text for advertisements is called :

   (a) Ad writing. (b) Art Production.

   (c) Illustration. (d) Copy writing.

4. The "heart and soul' of an Advertising Agency is ———.

   (a) Media department. (b) Account department.

   (c) Creative service department. (d) Finance department.

5. Most of the advertising of the Central Government in India is handled by :

   (a) PIB. (b) HMC.

   (c) Private agencies. (d) DAVP .

Turn over

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6. What is USP ?

   (a) A quality/ feature that is unique to a given brand/product which competitors cannot/do not offer.

   (b) A quality/ feature that is not unique to a given brand/product which being advertise.

   (c) A quality/ feature of a product/ brand similar to that of the competitor's product/ brand.

   (d) A product that can sell well.

7. Which type of advertising objective is the most important for mature products ?

   (a) Informative advertising. (b) Comparison advertising.

   (c) Persuasive advertising. (d) Reminder advertising.

8. The primary purpose of a pioneering advertisement is to :

   (a) Promote a specific brand's features and benefits

   (b) Inform the target market

   (c) Show one brand's strengths relative to those of competitors.

   (d) Reinforce previous knowledge of a product.

9. Three common advertising appeals include

   (a) Objectivity, Timeliness and Frequency.

   (b) Fear, Sex, and Humour.

   (c) Guilt, Ego and Enrichment.

   (d) Possessiveness, Pride and Social status.

10. AIDA stands for Awareness, ————, Desire and ————.

   (a) Interest; Action. (b) Idea; Approach.

   (c) Intensity; Appeal. (d) Involvement; Appeal.

(10 × 1 = 10 marks)

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Section B (Short Answer Questions)

Answer any **eight** *questions.*
2 *marks.*

11. Brand Image.
12. Media Planning.
13. Direct Mail Advertising.
14. SPJ.
15. Propaganda.
16. IPRA.
17. DAVP.
18. Expository copy.
19. Product Research.
20. Surrogate Advertising.
21. ASCI.
22. Covert Advertising.

(8 × 2 = 16 marks)

Section C (Short Essays)

Answer any **six** *questions.*
4 *marks.*

23. What is the difference between public service advertising and product advertising ?
24. How regional Advertising is different from National Advertising.
25. What are the salient features of internet advertisements ?
26. What are Advertorials ? How are they used for Public Relations ?
27. Explain the five P's in integrated marketing ?
28. What are the functions of advertising ?
29. Briefly explain the impact of television advertising on children.

Turn over

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30. How can documentary films help in Public Relations Campaign?

31 As a P.R. practitioner what are the basic steps would you adopt while organizing a news conference ?

(6 × 4 = 24 marks)

Section D (Essays)

Answer any **two** *questions.*

15 *marks.*

32. Explain various elements of an Advertising copy.

33. Give a detailed note on the stages in Public Relation process.

34. What are the steps a company should take if it desires to develop a favourable image ?

35. How can public relations be useful for an organisation in modern society ?

(2 × 15 = 30 marks)

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C 4967 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Banking Finance Service and Insurance

SDC 4BF 16 E2—RISK MANAGEMENT AND INSURANCE

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———————— costs include broker commissions or fees.
   a) Total cost of risk. b) Attendent cost.
   c) Risk financing costs. d) Loss costs.

2. ———————— is the practice of identifying potential risks in advance.
   a) Risk management. b) Risk retention.
   c) Risk identification. d) Risk analysis.

3. The first step in the management of risks requires managers to understand the ————————.
   a) Context. b) Objectives.
   c) Business loss. d) Risk

4. ———————— is the evaluated likelihood of a particular outcome actually happening.
   a) Probability. b) Chance.
   c) Impact. d) Result.

5. ———————— risk arises because of the fluctuations in the exchange rates between the domestic currency and the foreign currency.
   a) Commodity price risk. b) Foreign exchange risk.
   c) Interest rate risk. d) Equity price risk.

6. ———————— is the risk businesses incur by extending credit to customers.
   a) Market risks. b) Credit risk.
   c) Political risk. d) Operational risk.

Turn over

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7. ———————— is a policy on which the insured pays premiums for a limited period of time, such as 20 years.

a) Whole Life policy. b) Limited pay life insurance.

c) Universal life insurance. d) Variable life insurance

8. ———————— is/are insurance policy provision that adds benefits to or amends the terms of a basic insurance policy.

a) Bonus. b) Riders.

c) Perks. d) Appanage.

9. ———————— means that exposures with similar characteristics are placed in the same underwriting class, and each is charged the same rate.

a) Class rating. b) Individual rating.

c) Judgement rating. d) Schedule rating.

10. ———————— underwriting, which seeks to assess risk and the appropriate price of particular securities.

a) Loan underwriting. b) Securities underwriting.

c) Insurance underwriting. d) Policy underwriting.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 marks.

11. What are the common elements found in every risk ?
12. What is the relationship between risk and uncertainty ?
13. State the meaning of Peril.
14. What is the difference between active risk retention and passive risk retention ?
15. "Loss prevention refers to measures that reduce the frequency of a particular loss". Narrate with example.
16. Write the principles of risk management in organizational context
17. What is liability insurance ?
18. What is pro rata basis insurance policy ?
19. What is ERM ?

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20. What is a Stop Loss Provision ?

21. What is an insurance repository ?

22. Give any two difference between insurance agent and insurance broker.

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Which are the various types of hazards ?

24. There are a variety of situations that give rise to risk. Enumerate the sources of risk.

25. 'Management of risks reduces the chances of such factors affecting an organization negatively.' Explain the meaning of risk management

26. Which are the risk control techniques ?

27. What are the factors to be considered in commercial risk management ?

28. Workmen's Compensation Insurance Tariff (W.C.Tariff) provides for two types of Insurance. Explain.

29. Explain the steps in retirement planning.

30. What are the types of Annuities ?

31. What are the functions of Actuaries ?

(6 × 4 = 24 marks)

Part D (Long Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write a detailed note on Systematic risk and its components.

33. Explain the various methods of transferring the risk.

34. What is property insurance ? Explain the different types of property insurance.

35. Briefly explain the classifications of Life Insurance Policy.

(2 × 15 = 30 marks)

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C 4965 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Banking Finance Service and Insurance

SDC 4BF 15—AUDITING AND CORPORATE GOVERNANCE

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Professional qualification of an auditor means :

   a) A statutory qualification of the auditor within the meaning of Chartered Accountant Act 1949.

   b) Auditor must be a chartered accountant.

   c) Auditor must have thorough knowledge of the theory and practice of accountancy.

   d) Auditor should have the knowledge of commercial laws.

2. Cost audit is compulsory to :

   a) All companies.

   b) All industrial companies.

   c) All large scale companies.

   d) To companies engaged in manufacturing and mining activities u/s 209.

3. Primary voucher is the :

   a) Copy of original voucher. b) First voucher.

   c) Subsidiary evidence. d) Original voucher.

4. Vouching of cash book means :

   a) Checking of cash receipts and cash payment with supporting documents.

   b) Examination of cash with documents.

   c) A process of physical examination of cash in hand.

   d) None of these.

Turn over

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5. The important source of cash receipt to a business firm is :

a) Capital receipts. b) Sales by travelling agent.

c) Cash sales. d) Online trading.

6. Online trading is called :

a) E commerce. b) M commerce.

c) Net marketing. d) Trading through phone.

7. The board of corporate consist :

a) 5 to 10 members. b) 10 to 15 members.

c) 10 to 20 members. d) None of these.

8. The committee which is established to make decisions in the boards absence is called :

a) Audit committee b) Finance committee.

c) Executive committee. d) Remuneration committee.

9. The trend of developing corporate governance codes begin in :

a) 1993. b) 1994.

c) 1992. d) 1995.

10. In which committee, code of governance is known as 'code of best practice' :

a) Cadbury committee. b) Greenbury committee.

c) Hampel committee. d) None.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 marks.

11. Explain error of omission.

12. How can detect fraud in accounts ?

13. What do you mean by audit standard ?

14. Explain essentials of a valid voucher.

15. How the opening cash balance is vouched ?

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16. How do you vouch the fees paid for the directors ?
17. Explain the term internal audit.
18. Comment about internal control.
19. Explain nomination committee.
20. Explain two SEBI guidelines in regard to audit committee.
21. What is German-Japanese model corporate governance ?
22. Why is corporate governance rating is needed ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Auditing brings many advantages to the business, owners and the society. Group them and discuss.
24. Discuss the method of teeming and lading of 'cash receipt from debtors'.
25. How bills payable book is vouched ?
26. How to plan a good internal check system ?
27. What are the statutory duties of the auditor in regards to a joint stock Company ?
28. What are the benefits of corporate governance ?
29. Explain the role of audit committee.
30. What are the major recommendations of Cadbury Committee ?
31. Write note on corporate failure of Satyam computers.

(6 × 4 = 24 marks)

Part D (Long Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What are the objects of auditing and also explain qualities of a professional auditor.
33. Comment about 'verification of assets and liabilities and Auditor's duty'.
34. "New dimensions of auditing are in the auditing arena, in the recent years". Describe the recent trends in auditing.
35. Briefly explain the origin and development of corporate governance.

(2 × 15 = 30 marks)

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C 4964 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Banking Finance Service and Insurance

SDC 4BF 14—GENERAL INSURANCE OPERATIONS

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Which of the following types of companies issue ULIP ?

   a) Insurance companies. b) Bank.

   c) NABARD. d) None of these.

2. Which amongst the following is not an insurance company functioning in India ?

   a) ICICI prudential.

   b) ING Vysya.

   c) National Securities Depository Limited.

   d) None of these.

3. The term "Risk" includes :

   a) Damage to machinery and property.

   b) Impact on the health or life of a person.

   c) Leakage of toxic products into the atmosphere.

   d) Effect on the healthy life of neighborhood.

   e) All of the above.

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4. The main purpose of having Life insurance is :

   a) As an avenue for long-term investment.

   b) As a medium for getting income tax benefits from savings.

   c) As a governmental programme for reducing poverty.

   d) As an avenue for short-term investment.

   e) None of the above.

5. Which of the following perils can be an add-on cover under the Fire policy at extra premium ?

   a) Spontaneous combustion. b) Flood.

   c) Impact Damage. d) Explosion.

6. Members of the Insurance Advisory Committee are drawn to represent the interests of different groups like :

   a) Surveyors, agents, advocates.

   b) Commerce, transport.

   c) Consumer forum, industry, intermediaries.

   d) Research bodies, organizations engaged in safety and loss prevention.

   e) Employees association in the insurance sector and agriculture.

7. Marine insurance cover losses or damages to the :

   a) Ship.

   b) Cargo.

   c) Any other subject of Marine aaventure.

   d) All of these.

8. Which regulation deals with claim procedure ?

   a) IRDA Regulation, 2000. b) IRDA regulation 2002.

   c) Insurance Act 1938. d) Government of India Directives.

9. In Marine Insurance Policy Insurable interest must exist at the time of :

   a) Taking policy. b) At the time of claim

   c) Both at time of Policy and claim. d) May not have insurable interest.

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10. Ordinary Leakage as per ICC means :

a) Leakage from accident Tin.
b) Evaporation of Liquids in atmosphere.
c) Leakage from defective Tin.
d) None of the above.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is the Principle of loss minimization ?
12. What is proposal form ?
13. What is Endorsement ?
14. What is property insurance ?
15. What are the benefits of personal accident insurance ?
16. What is average policy ?
17. What is consequential loss ?
18. What is boiler insurance ?
19. What is comprehensive insurance ?
20. What is personal injury protection insurance ?
21. What is marine cargo underwriting ?
22. What are the types of cargo insurance ?

(8 × 2 = 16 marks)

Part C (Short Essay Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is "utmost good faith" ?
24. What is fire insurance ? What are the benefits ?
25. What are the different types of life insurance ?
26. Explain machinery insurance.
27. Explain add on covers of fire insurance Policy ?

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28. What are the different types of motor insurance ?

29. What are the commercial motor policies ?

30. What is marine insurance ? What are the different types ?

31. What are the factors to be considered while fixing the premium for cargo Insurances ?

(6 × 4 = 24 marks)

Part D (Long Essay Questions)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Define Insurance. What are the principles of insurance ?

33. What are the different types of Health and Personal accident insurance ? Also mention the advantages.

34. What are the coverages under fire insurance ? Also explain the general exclusions, conditions and warranties ?

35. What are the general regulations in motor insurance policy ?

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4963 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Agriculture

SDC 4AG 14—LIFE STOCK FARMING

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *the following questions.*
Each question carries 1 *mark.*

1. Cow milk has more fat content than buffalo milk (T/F)
2. Mention the open area required for housing of Cow.
3. Define toned milk.
4. Define standardised milk.
5. Name the milk sugar.
6. Expand FSSAI.
7. Group of goat is known as ————————.
8. Name two exotic milch cattle breeds.
9. Causative organism of Gumboro disease.
10. FMD is caused by ———————— virus.

(10 × 1 = 10 marks)

Section B

Write short notes on any **eight** *of the following questions.*
Each question carries 2 *marks.*

11. Diagrammatically represent the side view of cattle shed.
12. Red Sindhi.
13. Pasteurisation *Vs* Sterilization.
14. Cross breeding *Vs* Inbreeding.

Turn over

CHMK LIBRARY UNIVERSITY OF CALICUT

15. Enlist the factors affecting milk composition.
16. Lactation length *Vs* Lactation yield.
17. Drying off.
18. Milk yield.
19. Infectious coryza.
20. Milk fever.
21. NDDB and its objectives.
22. Signs of health in animal husbandry.

(8 × 2 = 16 marks)

Section C (Short Essay Type Questions)

Answer any **six** *of the following.*
Each question carries 4 *marks.*

23. Briefly explain the types of milk.
24. Briefly explain the factors affecting milk yield.
25. Describe the sources of contamination of milk.
26. Write a brief note on :
    a) NDRI.
    b) Operation Flood Program.
27. Briefly describe artificial insemination in cattle.
28. Rabbit farming.
29. General management principles in dairy farming.
30. Classification of animal diseases.
31. Discuss the role of livestock in Indian agriculture.

(6 × 4 = 24 marks)

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Section D

Write an essay on any **two** *of the following questions.*
Each question carries 15 *marks.*

32. Describe :

    a) Housing of cattle.

    b) Types of housing.

    c) Care and management of new-born calf.

33. Write an essay on poultry management with special emphasis on housing, general management practices, diseases and breeds.

34. Describe :

    a) Livestock management- Principles, functions and tools.

    b) General management- Practices in dairy farming.

35. Describe :

    a) Composition of milk.

    b) Factors affecting milk composition.

    c) Factors affecting milk yield.

    d) Sources of contamination of milk.

(2 × 15 = 30 marks)

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C 4962 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Agriculture

SDC 4AG 13—WEED MANAGEMENT AND FODDER CROP PRODUCTION

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *the following questions.*

Each question carries 1 *mark.*

1. Name the complete root parasite in Tobacco.
2. Define acidophils with example.
3. ———— is a modification of persistent calyx into hairs.
4. Herbicides used for fumigation are called ————.
5. Causative organism of rice blast is ————.
6. Which is the dual-purpose variety of coconut ?
7. List out two rice transplanting machines.
8. ———— toxic produced by *Aspergillus flavus* in groundnut.
9. What is 'Bad Ball Opening' or 'Tirak' ?
10. Write an example for partial root parasite ?

(10 × 1 = 10 marks)

Section B

Write short notes on any **eight** *of the following questions.*

Each question carries 2 *mark.*

11. Differentiate topping and desuckering in tobacco.
12. Distinguish between alien weeds and native weeds.

Turn over

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13. List out the four trees of Nalpamara.

14. Match the following :

(a)	Marigold	(1)	Opuntia delline.
(b)	Moth	(2)	Puccinia chondrillana.
(c)	Prickly pear	(3)	Parthenium spp.
(d)	Rust	(4)	Carcidosema lantana.

15. List out the ten flowers of Dasapushpa.

16. What is partha method of planting ? In which crop, it is practised ?

17. List out different value-added products of coconut.

18. What is summer following ?

19. Write a short note on *Cymbopogon flexuosus*.

20. List out the three fruits of Triphala.

21. Which are the 2 commercially cultivated species of Indian sugarcane ?

22. Write the advantages and disadvantages of granular herbicides.

(8 × 2 = 16 marks)

Section C

Answer any **six** *of the following short essay type questions.*
Each question carries 4 mark.

23. Explain the beneficial effects of weeds.

24. What is biological control of weeds ? Write the merits and demerits of biological control.

25. What is curing in tobacco ? What are the different types of curing ? Explain flue curing.

26. Write a short essay on different methods of planting sugarcane.

27. Write any *ten* short duration rice varieties with their characteristics.

28. What is IWM ? Explain the principles and advantages of IWM.

29. Write a note on the post-harvest handling of jute.

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30. Briefly explain the advantages and disadvantages of herbicide usage in agriculture.

31. Briefly explain the cultivation practices in groundnut.

(6 × 4 = 24 marks)

Section D

Write an essay on any **two** *questions.*

Each question carries 15 *mark.*

32. Write a detailed note on various hints for reducing the cost of cultivation of rice.

33. Define weed management. Explain the principles of weed management.

34. What is herbicide ? Explain the classification of herbicides.

35. What are aquatic weeds ? Explain the management of aquatic weeds.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4961 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Agriculture

GEC 4SA 12—SOIL AND AGRICULTURAL MICROBIOLOGY

Time : Three Hours Maximum : 80 Marks

Section A (Objective type)

Answer all the **twelve** *questions.*
Each question carries ½ mark.

1. Write one example for associative nitrogen fixer.
2. The enzyme involved in nitrogen fixation is ————————.
3. The causative agent of tomato wilt is ————————.
4. Write one example for bacterial pesticide.
5. The nitrogen fixing organism present in Azolla is ————————.
6. The angular leaf spot of cotton is caused by ————————.
7. Azolla is used as ———————— biofertilizer.
8. The area of the soil which is near to the roots is called ————————.
9. Write one example for phosphate solubilizer.
10. Write one control measure of citrus canker.
11. Papaya ring spot is caused by ————————.
12. Frankia is an example of ————————.

(12 × ½ = 6 marks)

Section B

Answer all **ten** *questions.*
Each questions carries 2 marks.

13. Sulfur cycle.
14. Mutualism.
15. Rhizosphere effect.
16. Soil formation.
17. Nematophagus fungi.

Turn over

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18. Symptoms of angular leaf spot of cotton.
19. Control measures of bunchy top of banana.
20. Endo mycorrhiza.
21. Luminescent bacteria.
22. Carbon cycle.

(10 × 2 = 20 marks)

Section C (Short Essay Questions)

Answer any **six** *questions.*
Each questions carries 5 *marks.*

23. Biofertilizer.
24. Role of microbes in ruminants.
25. Phosphorus cycle.
26. Soil fertility test.
27. Write on any two viral plant diseases.
28. Fungal biopesticides.
29. Non symbiotic nitrogen fixers.
30. Advantages of biopesticides over chemical pesticides.

(6 × 5 = 30 marks)

Section D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 12 *marks.*

31. Explain various factors affecting microbial populations in soil.
32. Explain different types of Mycorrhiza and their applications in agriculture.
33. Explain various microbe- microbe interactions.

(2 × 12 = 24 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4960 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Agriculture

GEC 4IT 11—INFORMATION TECHNOLOGY

Time : Three Hours Maximum : 80 Marks

Fill in the blanks (Answer *all* the questions) :

1. MIS stands for ————.
2. The typewriter is the most commonly used ———— machine for correspondence work.
3. Systems that allow information to be shared by many users are also called ————.
4. ———— is the International telegraphic message transfer service.
5. ———— printers print one character at a time.
6. The panel at the top of the MS-Word is called ————.
7. Typed data goes to the ———— Cell.
8. The number of attributes in a relation is called ————.
9. IRTF means ————.
10. WAIS stands for ————.

(10 × 1 = 10 marks)

Short Answer Questions (2 marks each, Answer any *eight* questions) :

11. What do you mean by Office automation ?
12. What is *e*-mail ?
13. What is a dot-matrix printer ?
14. What are personal computers ?
15. What is a Quick Access toolbar ?
16. What is mail merge ?

Turn over

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17. Write a note on the formatting of worksheet ?
18. What is DBMS ?
19. What are the DBMS languages ?
20. What is sorting ? Explain steps ?
21. What is IP address ?
22. What is internet ?

(8 × 2 = 16 marks)

Short Essay Questions (4 marks each, Answer any *six* questions) :

23. What do you mean by cyclostyling ?
24. Distinguish between impact and non-impact printers ?
25. State the method of saving a document.
26. What is network database model ?
27. Explain the functions of DBMS.
28. What are the main components of DBMS ?
29. How Information travels across the internet ?
30. Explain TELNET, GOPHER and WIAS.
31. What is web portal ? Mention the commonly used web portals.

(6 × 4 = 24 marks)

Essay (15 marks each, Answer any 2 questions) :

32. Explain the components of word processing.
33. Explain different database models.
34. What is EDI? Explain the EDI formats ?
35. Explain intranet and extranet.

(2 × 15 = 30 marks)

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C 4959 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Accounting and Taxation

SDC 4AT 16 E2—RISK MANAGEMENT AND INSURANCE

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. The most effective strategy for minimizing risk is ———.
2. When was Life Insurance sector nationalised ?

   (a) 1834. (b) 1907.

   (c) 1938. (d) 1956.
3. ——— risks apply to all financial instruments that are in a currency.
4. ——— refers to measures that reduce the severity of a loss after it occurs.
5. Most projects fail because of insufficient support of ———.

   (a) Project manager. (b) Top management.

   (c) Sponsors. (d) Strategic fit.
6. ——— Refers to techniques that provide for the funding of losses.
7. A risk management team decides to identify threats, vulnerabilities, and recommendations using an affinity diagram. Which of the following is not one of the basic steps used to create an affinity diagram ?

   (a) Create a problem statement.

   (b) Identify unacceptable suggestions.

   (c) Generate ideas.

   (d) Mitigate risks.
8. ——— means the firm retains part or all of the losses that can result from a given loss.

Turn over

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9. Which of the following risks are derived from the software or hardware technologies that are used to develop the system?

   (a) Managerial Risk. (b) Estimation Risk.

   (c) Organisational Risk. (d) Technology Risk.

10. ———— risk is the risk an investments return could suffer because of political instability or change in a country.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions, not exceeding a paragraph.*
Each question carries 2 *marks.*

11. What are loss costs ?
12. What are swaps ?
13. What is pure risk ?
14. What is claim valuation ?
15. What is reputational risk ?
16. What is static risk ?
17. How is risk related to insurance ?
18. What is absolute liability ?
19. What are strategic risks ?
20. What is risk assessment ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in a page of* 50 *words.*

21. Explain the relationship between risk management, compliance, and the audit function.
22. Explain the risk management application in loss of health.
23. Explain the purpose and contents of a risk register.
24. Emphasize the need for risk management.

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25. What are the benefits of risk financing ?

26. Elaborate the sources of risk and explain the various methods of risk measurement.

27. Explain the role of various intermediaries in insurance.

28. Explain the various foreign insurers in India.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions, not exceeding* **four pages.**

Each question carries 15 *marks.*

29. Explain different types of risks

30. What are insurance contracts ? Explain the types of commercial property insurance.

31. Understand the core elements of the risk management process.

32. Bring out the utility of options as a tool of risk of management.

(2 × 15 = 30 marks)

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C 4957 (Pages : 4) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Accounting and Taxation

SDC 4AT 15—AUDITING AND CORPORATE GOVERNANCE

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Planning of audit means :

   a) Planning the work of audit.

   b) Preparation of the work of audit.

   c) Acquiring knowledge about the client accounting system.

   d) Prearranging and co-ordinating the work of audit of a client.

2. Verification is based as :

   a) Documentary examination.

   b) Physical verification.

   c) Both documentary and physical examinations.

   d) None of these.

3. Intangible asset are valued at :

   a) Cost price.

   b) Market price.

   c) Cost price and market price which ever is lower.

   d) Selling price.

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4. Auditing standard means :

   a) The standard of audit.

   b) Measurement of quality audit performed by an auditor.

   c) The principles of audit.

   d) The personal standard of audit.

5. The statutory qualifications of company auditor is :

   a) Possess adequate educational qualifications.

   b) A person who is chartered accountant and hold a certificate of practice.

   c) A person who is a member of ICAI.

   d) Not compulsory CA degree.

6. Civil liability of the auditor arise out of :

   a) Company act. b) Common law.

   c) Failure to take reasonable care. d) Negligence.

7. Audit report is made :

   a) Before the audit begins. b) During the audit.

   c) After the audit work. d) Not necessary to submit.

8. The system by which companies are directedand controlled is known as :

   a) Corporate governance. b) Corporate ethics.

   c) Corporate frame work. d) None of these.

9. Which committee should be formed by inviting nomination from the ordinary shareholders, through postal ballot :

   a) Nomination committee. b) Remuneration committee.

   c) Auditing committee. d) None of these.

10. EVA stands for :

   a) Economic Value Addition. b) Environment Value Addition.

   c) Economic Viability Association. d) Environment Value Association.

(10 × 1 = 10 marks)

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Part B

Answer any **eight** *questions, not exceeding* **a paragraph**.
Each question carries 2 *marks.*

11. Define Internal Checks.
12. What is vouching of non-cash items ?
13. What do you mean by green governance ?
14. What is Documentation ?
15. What is e-governance ?
16. Explain Contingent liabilities.
17. What is insider trading ?
18. What is efficiency audit ?
19. What is energy audit ?
20. Explain the term Internal Audit.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in* **a page** *of* 50 *words.*
Each question carries 4 *marks.*

21. What are the advantages of audit programme ?
22. What are the differences between valuation and verification ?
23. Explain the causes of corporate failure.
24. What are the primary objects of audit ?
25. What are the limitations of internal checks ?
26. Explain how an auditor verifies cash in hand.
27. Write note on inflation audit and human resources audit.
28. What are the statutory duties of the auditor in regards to a joint stock company ?

(6 × 4 = 24 marks)

Turn over

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Part D

Answer any **two** *questions, not exceeding* **four pages**.
Each question carries 15 *marks.*

29. What are the duties of a Company auditor ?

30. What are the objects of auditing and also explain qualities of a professional auditor ?

31. Briefly explain vouching of cash payment.

32. Briefly explain about the board committee of governance and their function.

(2 × 15 = 30 marks)

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C 4956 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Accounting and Taxation

SDC 4AT 14—INDIRECT TAXATION

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. ———————— duty is applicable on manufacturing of goods sold in India.

   a) Service tax. b) Sales tax.

   c) Excise duty. d) Export duty.

2. CGST stands for :

   a) State Goods and Services Tax. b) Central Goods and services Tax.

   c) State sales tax. d) Central sales tax.

3. ———————— means a supply of goods or services or both which is not liable to Tax under this act or under the integrated goods and services Tax Act.

   a) Non-taxable territory. b) Non-taxable supply.

   c) Output tax. d) Mixed supply.

4. ———————— in relation to a taxable person means supply of goods or services or both whether by sale transfer barter exchange license or any other mode.

   a) Outward supply. b) Place of supply.

   c) Principal supply. d) Recipient.

5. ———————— duty means a tax which is levied by the Government on import of goods into India and export out of India.

   a) Excise. b) Customs.

   c) Sales. d) None of these.

Turn over

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6. BCD stands for ————————.

a) Basic Customs Duty. b) Below customs duty.

c) Basic care duty. d) None of these.

7. Liability to pay tax by the recipient of supply of goods or services is called :

a) Output tax. b) Reverse charge.

c) Input tax. d) None of these.

8. Under GST, 'value addition' refers to :

a) Expenses 'plus' profit. b) Cost plus tax.

c) Cost plus tax 'plus' profit. d) Tax plus profit.

9. Intra state supply Means supply of goods and services in ———————— places.

a) Different. b) Same.

c) No. d) None of these.

10. ———————— tax rate is based on particular quantity of a product rather than on its value.

a) Progressive tax. b) Proportional tax.

c) Specific tax. d) Ad valorem tax.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions, not exceeding* **a paragraph**.
Each question carries 2 marks.

11. What is indirect tax ?

12. Which are the important components of GST ?

13. Define Business.

14. What is composition scheme under GST ?

15. What is customs duty ?

16. What is BCD ?

17. What is outward supply ?

18. What is HSN Code ?

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19. Define output tax.

20. Write two disadvantages of direct tax.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in* **a page** *of* 50 *words.*
Each question carries 4 *marks.*

21. Explain the features of indirect tax.

22. Explain the important advantages of GST system.

23. What do you mean by input credit ?

24. Explain zero rated supply.

25. What is time of supply ? How will you determine time of supply in case of supply of vouchers ?

26. Explain the concept of supply and its types.

27. Define taxable person under GST Act.

28. Write notes on role of direct and indirect tax in Indian economy.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions, not exceeding* **four pages.**
Each question carries 15 *marks.*

29. What is indirect tax ? What are its advantages and disadvantages ?

30. Explain the features of indirect tax. Also, its type.

31. What are the necessary components that constitute supply under the central GST/state GST Act ?

32. What is refund of GST ? Explain the provisions of refund of GST.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4955 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

GEC4MY11—MINERALOGY

Time : Three Hours Maximum : 80 Marks

Draw neat sketches wherever necessary.

Part A (Objective Type Questions)

Answer all **ten** *questions.*
Each question carries 1 *mark.*

1. Who discovered the periodic table ?

2. Which of the following minerals is the dimorph of aragonite ?

   (a) Gypsum. (b) Dolomite.

   (c) Calcite (d) Apatite.

3. The typical luster shown by mica group of minerals is ————.

4. The measure of the difference between the maximum and minimum refractive indices of a particular mineral.

5. Which part of the petrological microscope is used when examining interference figures ?

6. In Optical Mineralogy the ellipsoid with the three major semi-axes denoted n_α, n_β and n_γ and whose three principal sections are ellipses is called ————.

7. Which of the following is an orthorhombic pyroxene ?

   (a) Augite. (b) Pigeonite.

   (c) Hedenbergite. (d) Bronzite.

8. The mineral group characterized by Forsterite-Fayalite isomorphous series.

Turn over

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9. The mineral Topaz crystallizes in the ——— system.

10. In which industry does the mineral apatite finds its most important use ?

(10 × 1 = 10 marks)

Part B (Short Answer Type Questions)

Answer any **ten** *questions.*
Each question carries 2 *marks.*

11. Covalent bonding in minerals.

12. Solid solution.

13. Isomorphism.

14. Refractive index.

15. Total internal reflection.

16. Nicol prism.

17. Isotropic and anisotropic minerals.

18. Acute Bisectrix.

19. Properties of garnet mineral.

20. Orthorhombic amphibole.

21. Physical properties of tourmaline.

22. Modes of occurrence of zircon and rutile.

(10 × 2 = 20 marks)

Part C (Paragraph Type Questions)

Answer any **five** *questions.*
Each question carries 6 *marks.*

23. Physical properties of minerals dependent upon light.

24. Common methods of determining specific gravity of minerals.

25. Parts of a Petrological microscope.

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26. Types of extinction in minerals and their determination.

27. Optic sign of Uniaxial and Biaxial minerals.

28. Physical and optical properties of Zeolites.

29. Polymorphs and varieties of Quartz.

30. Chemical composition, properties and uses of Talc and Fluorite.

(5 × 6 = 30 marks)

Part D (Essay Type Questions)

Answer any **two** *questions.*
Each question carries 10 *marks.*

31. Give an account of the structure and classification of silicates.

32. Describe the important optical accessories, their construction and uses.

33. Describe the structure, chemical composition, physical and optical properties, modes of occurrence and uses of Feldspars.

34. Give an account of the minerals Calcite and Corundum with reference to their mineralogical composition, physical and optical properties, modes of occurrence and industrial uses.

(2 × 10 = 20 marks)

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C 4954 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

GEC 4HC 11—HISTORY OF CINEMA

Time : Three Hours Maximum : 80 Marks

Answer **all** *questions.*
Each question carries 1 *mark.*

1 "Citizen Kane" one of the world famous classic produced by Orsen Welles depicts the story of a ————.

2. Odessa steps is a sequence in ————.

3. Sir David Attenborough is a renowned ————.

4. Which is the film production company launched jointly by Griffith, Chaplin, Mary Pickford and Douglas Fairbanks ?

5. Which festival is devoted exclusively to short films ?

6. Who defined phi phenomenon ?

7. Kinetoscope, invented by ———— and ———— in 1891.

8. A Trip To Moon produced by ————.

9. Hollywood's classical narrative style done by ————.

10. Neo realism developed in ————.

(10 × 1 = 10 marks)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Patherpanchali.

12. Anand Patwardhan.

13. Bhuvan Shome.

14. Mise-en-scene.

15. Pre-production.

16. Shyam Benegal.

Turn over

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17. Movie censoring.
18. Documentary.
19. German Expressionism.
20. Lumiere Brothers.
21. Kinetoscope.
22. KaagazKePhool.

(8 × 2 = 16 marks)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Elucidate the concept of balance and contrast.
24. Explain the montage theory proposed by Eisenstein.
25. What are the different camera movements ?
26. What do you want to emphasize in a low angle shot ?
27. Explain on Language of cinema.
28. Write a profile of Akira Kurasowa.
29. Differentiate feature film and documentary film.
30. Explain frame, shot and scene.
31. Who are the important film authors in Spanish and Greek Cinema ?

(6 × 4 = 24 marks)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Information technology had reduced the process of film production. Offer your comments.
33. Documentary production is supported mainly by the government. Why ? Discuss.
34. Analyse the narrative structure of a film you have seen recently.
35. Write an essay on cinema Movements and explain two of them.

(2 × 15 = 30 marks)

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C 4953 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

GEC 4CW 10—CREATIVE WRITING FOR TV AND FILM—2

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Who directed the film 'Thorn of the blood' ?
2. What is called tag ?
3. Who is the script writer of the film 'Informer'.
4. Father of Indian film.
5. The highest film award in India is known as _____.
6. The first Indian film.
7. In which film, actor P.J. Antony won the Bharat award.
8. In which year the high speed photography established ?
9. Who directed the film 'KabaneenadiChuvannappol' ?
10. Who is the script writer of film 'Peruvazhiyambalam'.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Structure of script.
12. Linear arrangement.
13. Conflict.
14. Adaptation.
15. Point -of-view shots.
16. Reaction shots.

Turn over

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17. Eye line continuity.
18. Post production.
19. Lens aperture system.
20. Political film.
21. Focal length.
22. Balancing.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What is the importance of the film 'Chinatown' ?
24. Describe the plot point.
25. Explain the conflict and the critical situation.
26. Explain about tragedy.
27. What are the difference between film scriptand TV script ?
28. Write short notes on alienation theory.
29. Explain the various shots as on camera movement.
30. What are the advantages of mirror shots ?
31. Explain on peaks moments.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. How to adapt a creative work ? What is the importance ?
33. Write an essay on an International film maker.
34. "I am the Hitler of my film". Who comments it ? Explain why ?
35. What are the contributions of P.K Nair to Indian film ? Explain.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4952 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, MAY 2020

Common Course

GEC4BM11—BASICS OF AUDIO AND VIDEO MEDIA (A14)

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. Sound pressure variations are represented in ——— units.
2. Expansion of MIDI is ———.
3. Delay in music system is introduced to cause the effect of ———.
4. Reproduction of signals from a magnetised tape is done using the principle of ———.
5. The length of the tape magnetised by one cycle of audio signal is called ———.
6. A baffle having a specially designed extra port is called ———.
7. ——— converts electrical signals of audio frequency into sound waves.
8. Production of complex waveforms of music by electronic means is called
9. Stereophonic discs have ——— type grooves.
10. Wow and flutter pertain to variations in ———.

(10 × 1 = 10 marks)

Part B

Answer any **five** *questions.*

Each question carries 2 *marks.*

11. Define Pitch.
12. What is the importance of output impedance of a microphone ?
13. Explain the function of parametric equalizer in audio amplifiers ?
14. Write short notes on Blu- Ray disc.
15. Explain AAC compression standard.

Turn over

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16. Explain the resolution of A/D converter.

17. What are the applications of capacitor microphone ?

(5 × 2 = 10 marks)

Part C

Answer any **six** *questions.*

Each question carries 5 *marks*

18. Explain the reflection and diffraction of sound.

19. Explain the growth and decay of sound in an enclosure.

20. What are the characteristics of a loudspeaker ? Explain.

21. Draw the circuit of mixer circuit for a P. A. system. Explain its working.

22. Explain the different noise reduction techniques used in audio recording.

23. Explain the construction of moving coil microphone with a neat sketch.

24. Explain the recording process of luminance and colour in video recording.

25. Why is biasing used in magnetic recording ? Explain the D.C. biasing.

(6 × 5 = 30 marks)

Part D

Answer any **two** *questions.*

Each question carries 15 *marks.*

26. Explain the hearing mechanism of human ear with a neat diagram.

27. Explain the construction and working of electrodynamic loudspeaker.

28. Explain the digital coding using flash A/D converter.

29. Explain the principle and process of video reproduction from the magnetic tape with a block diagram.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4951 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

GEC4SE11—SOFTWARE ENGINEERING PRINCIPLES

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*

Each question carries 1 *mark.*

1. ——— is the output of software analysis.
2. ——— is the first step of SDLC.
3. ——— is the diagram that depicts data source, data links, data storage and processes performed on data as nodes and logical flow of data as links between the nodes.
4. ——— is a technique to divide a software system into multiple discrete and independent modules which are expected to capable of carrying out tasks independently.
5. ——— is evaluation of the software against requirements gathered from users and system specifications.
6. Software evolution does not comprise :
   (a) Development Activities. (b) Negotiating with clients
   (c) Maintenance Activities. (d) Reengineering Activities.
7. ERD stands for ———.
   (a) Entity Relationship Diagram. (b) Exit Related Diagram.
   (c) Entity Relationship Design. (d) Exit Related Design.
8. Unit Testing is done by ———.
   (a) Users. (b) Developers.
   (c) Customers. (d) None of the above.

Turn over

CHMK LIBRARY UNIVERSITY OF CALICUT

9. A COCOMO model is ———.

   (a) Common Cost estimation Model.

   (b) Constructive Cost estimation Model

   (c) Complete Cost estimation Model

   (d) Comprehensive Cost estimation Model

10. Which of the following risk is the failure of a purchased component to perform as expected ?

   (a) Project Risk. (b) Product Risk.

   (c) Business Risk. (d) Programming Risk.

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*

Each question carries 2 *marks.*

11. What do you mean by software engineering ?

12. Describe Water fall model.

13. List out the basic principles of software project scheduling.

14. Explain the symbols used in DFD.

15. Define SRS.

16. What is architectural design ?

17. What do you mean by coupling ?

18. Write a note on structure chart.

19. What do you mean by software testing ?

20. What is adaptive maintenance ?

21. Explain CASE tools.

22. What is meant by Cyclomatic Complexity ?

(8 × 2 = 16 marks)

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Section C

Answer any **six** *questions.*

Each question carries 4 *marks.*

23. Explain the phases in SDLC.
24. What is feasibility study ? What are the contents that should contain in the feasibility report ?
25. Explain requirement engineering process.
26. Define SQA plan.
27. Compare top-down and bottom-up design strategies.
28. What is HIPO diagram ? Explain.
29. What is test plan and test case ?
30. Explain software re-engineering.
31. Explain PERT.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*

Each question carries 15 *marks.*

32. Explain prototyping model. List its advantages and disadvantages.
33. Explain IEEE standard structure of SRS.
34. Describe the fundamental software design concepts and explain the criteria for modular design method evaluation.
35. Explain the strategic approach to software testing with any *four* testing techniques.

(2 × 15 = 30 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 4950 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

GEC 4PP 11—PRE PRODUCTION

Time : Three Hours Maximum : 80 Marks

I. Objective Type Questions. Answer all *ten* questions :

1 What are the 3 elements of a story ?

a) Beginning, middle, end. b) Lights, camera, action.

c) Script, actor, director. d) Writing, filming, editing.

2 Main character also called ————————.

a) Protagonist. b) Pentagons.

c) Supporting character. d) Hero.

3 ———————— is a complex visual language made up of shots.

a) Cinema. b) Animation.

c) Scene. d) None of these.

4 Pre production of Multimedia :

a) Story board. b) Shooting.

c) Editing. d) Special effects.

5 Production control :

a) Crew, property and Finance management.

b) Pre production activity.

c) Control of post production.

d) None of the above.

Turn over

CHMK LIBRARY UNIVERSITY OF CALICUT

6 Which audition method is used to read the material cold, guessing at the intentions and context of the material ?

a) Cold reading. b) Side.

c) Monologue. d) None of these.

7 ———————— acting form adept the comedian artist.

a) Improvisation. b) To record or not.

c) Monologue. d) None of these.

8 An ———————— shot includes only a face.

a) Close up. b) Extreme close up.

c) Medium shot. d) Long shot.

9 A ———————— lens helps reduce shakiness in handled shots.

a) Extreme telephoto. b) 5 5-mm.

c) Tinted. d) Wide angle.

10 The ———————— the action you are and the ———————— the shot, the steadier and smoother the pictures will look.

a) Farther from; wider. b) Closer to; narrower.

c) Closer to; wider. d) Farther from; narrower.

(10 × 1 = 10 marks)

II. Short Answer Questions. Answer any *eight* questions :

11 Write few words about screenplay ?

12 Explain the difference between producer and production controller.

13 What is standard screenplay format ?

14 Difference between rehearsal script and camera script ?

15 Write few words about good story elements theory of Aristotle.

16 Differentiate between fiction and non-fiction with examples.

17 Explain theme and Theses.

18 What is the role of a film director ?

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19 What is oblique shot ?

20 Who is a Stringer ?

21 What is meant by structure of a storyboard ?

22 What is medium close up ?

(8 × 2 = 16 marks)

III. Write short essays on any of the *six* questions :

23 What is plot of story ?

24 What you mean by center of internet ?

25 Brief description about drama script.

26 Explain round and flat characters.

27 Explain the responsibilities of Assistant Director.

28 Explain"the story should have three parts" by Aristotle.

29 How to select equipment during pre-production ?

30 Write about point of view shot.

31 Explain the role of production crew.

(6 × 4 = 24 marks)

IV. Write essays on any *two* of the following :

32 Explain elements of script writing.

33 What are the audition guidelines ?

34 Explain rehearsal and camera script with suitable example.

35 Brief note on budget. Who creates the budget ? Draw a budget form.

(2 × 15 = 30 marks)

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C 4949 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

GEC 4ED 11—ENTREPRENEURSHIP DEVELOPMENT

Time : Three Hours Maximum : 80 Marks

Part I

Answer **all** *questions.*
Each question carries 1 *mark.*

1. An investment opportunity exploited for profit is called ————————.

   a) Idea. b) Capital.

   c) Trade. d) Project

2. Which of the following is not a network technique ?

   a) CPM. b) PERT.

   c) SWOT. d) LOB.

3. ———————— introduced the term intrapreneur.

   a) Schumpeter. b) Peter Drucker.

   c) David McClelland. d) Gifford Pinchot 111.

4. The NSIC was set up in ————————.

   a) 1955. b) 1990.

   c) 2005. d) 1956.

5. Project feasibility analysis does not include ————————.

   a) Export analysis. b) Market analysis.

   c) Technical analysis. d) Financial Analysis.

6. SWOT analysis stands for strength, weakness, opportunity and ————————.

7. ———————— is a network technique of scheduling and controlling the project where activity times cannot be precisely estimated.

Turn over

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8. ———————— entrepreneurs are extremely task oriented.

9. The initial capital that is required to obtain loans from the financial institutions is called ————————.

10. ———————— is the difference between actual sales and break-even sales.

(10 × 1 = 10 marks)

Part II

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is a Bridge Capital ?

12. What is Project Identification ?

13. What is social cost benefit analysis ?

14. What is lease financing ?

15. What do you mean by Brainstorming ?

16. What is preferential purchase ?

17. What is Dummy activity ?

18. What is Demand forecasting ?

19. Distinguish between invention and innovation.

20. What is Feasibility report ?

(8 × 2 = 16 marks)

Part III

Answer any **six** *questions.*
Each question carries 4 *marks.*

21. What are the importance of break-even analysis ?

22. Difference between Quantifiable and Non-quantifiable project.

23. What is PERT ? What are its advantages and disadvantages ?

24. What are the guidelines for the construction of Network diagram ?

25. What are the characteristics of entrepreneurship Development ?

26. What are the advantages of business incubation ?

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27. What are the functions and services being rendered by MSME ?

28. What are the roles of DIC in the industrialization programme ?

(6 × 4 = 24 marks)

Part IV

Answer any **two** *questions.*
Each question carries 15 *marks.*

29. Define TCO. Discuss the role and importance of TCOs in the entrepreneurial development.

Or

30. What are the functions performed by NAYE and TRYSEM in the entrepreneurial development ?

31. What is Project Report ? Explain the importance and requisites of a good project report ?

Or

32. Who is an Entrepreneur ? What are the qualities required for a successful entrepreneur ?

(2 × 15 = 30 marks)

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C 4948 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

GEC4ED12—ENTREPRENEURSHIP DEVELOPMENT

Time : Three Hours Maximum : 80 Marks

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

I. Choose the correct answer :

1 The term intrapreneur was coined by ————.

(a) Robert Owen. (b) Joseph Schumpeter.

(c) Richard Cantillon. (d) Gifford Pinchot.

2 ———— is the earliest time an activity can begin.

(a) EFT. (b) LST.

(c) LFT. (d) EST

3 Which of the following is not a technique of financial analysis :

(a) Ratio analysis. (b) Risk analysis.

(c) Cash flow analysis. (d) Fund flow analysis.

4 The excess of the present value over the cost of the project is :

(a) IRR. (b) ARR.

(c) NPV. (d) NTV.

5 ———— is called fixed position layout :

(a) Process layout. (b) Combined layout.

(c) Stationary layout. (d) Cellular layout.

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II. Fill In the blanks :

6 The MSME Development Act came into force in ————.

7 SWOT stands for strength, weakness, opportunity, and ————.

8 ———— is an equilibrium point where revenue equals sales.

9 Crashing is applicable in ———.

10 The slogan "innovate or evaporate" was given by ————.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11 Define entrepreneurship.

12 Who is a social entrepreneur ?

13 What is an Industrial Estate ?

14 Discuss about Small Industries Development Organization.

15 Explain project management.

16 Explain Network Analysis.

17 Explain business incubation.

18 What is sericulture ?

19 What is project report ?

20 Explain cash flow statement.

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions.*
Each question carries 4 *marks.*

21 Explain the relation between innovation and entrepreneur.

22 What are the characteristics of MSMEs ?

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23. Discuss about Khadi and Village Industries Commission. What are its functions ?

24. Discuss about National Institute for Entrepreneurship and Small Business Development (NIESBUD). What are its functions ?

25. What is bridge finance ?

26. What is Project Evaluation and Review Technique (PERT). What are the steps involved ?

27. Discuss the services of Directorate of industries and commerce of Government of Kerala.

28. What are the services provided by business incubators ?

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions.*

Each question carries 15 *marks.*

29. What is an MSME ? What are its advantages ? Explain its role and importance in developing countries.

30. What is a project ? What is project life cycle ? What are the phases of project management ?

31. What is ED club ? What are its objectives ? Discuss the financial assistance through ED club.

(2 × 15 = 30 marks)

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C 4947 (Pages : 3) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS—UG)

Common Paper

A 04—ZEITGEIST—READINGS ON CONTEMPORARY CULTURE

Time : Three Hours Maximum : 80 Marks

I. (A) Choose the correct answer from the options. Each question carries 1 mark :

1 What does the term "preamble" mean ?

(a) Conclusion. (b) Preface.

(c) Post script. (d) Closing comment.

2 What does the word "hide" mean in leprous hide ?

(a) Skin. (b) Leaf.

(c) Sickness. (d) None of these.

3 What is the name of Mr. Mallard's friend in the short story "The story of an hour" ?

(a) Mr. Joseph. (b) Mr. Richard.

(c) Mr. Raphael. (d) Mr. John.

4 In the poem "What it's like to be Transgender" what was Jesus's response to the poet's prayer ?

(a) Granted him all. (b) Fixed him.

(c) Silence. (d) None of these.

5 In which language was *Akkarmashi* originally written ?

(a) Tamil. (b) Malayalam.

(c) Kannada. (d) Marathi.

(5 × 1 = 5 marks)

Turn over

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(B) Answer all the following questions in a word or a phrase. Each question carries 1 mark :

6 Why did the people believe in Gandhi ?

7 Who declared himself to be Qaid-e-Azam ?

8 In Tagore's poem what is referred to as "burden of ages" ?

9 Who said to the narrator: "if you've got no passport you're officially dead" ?

10 Robespierre and Napoleon came to power after which revolution ?

(5 × 1 = 5 marks)

II. Answer any *ten* from the following in one *or* two sentences. Each question carries 2 marks :

11 What are the objectives of the Constitution set by the Preamble ?

12 Explain 'In the middle on a stretch of land that had no name, lay Toba Tek Singh'.

13 What are the different attitudes of the White's and Native Americans to the country of their birth ?

14 Why does the poet say that a simple job of the knife will not kill a tree ?

15 What were Aaron's dreams about while he was staying inside the haystack ?

16 What does Adrienne Rich mean by 'students demand to be taken seriously' ?

17 Why was great care taken in breaking the news of her husband to Mrs. Mallard ?

18 'She (My mother) fears that I'll die without a whisper'. Why ?

19 What was the feeling of the speaker in 'Refugee Blues' when he went down the harbour and stood upon the quay ?

20 How did the man respond in the court when his baby daughter was brought there for the first time ?

21 What did the teacher do when he saw the narrator apparently doing nothing in the class the next day of the picnic ?

22 Why does a person who has just won a lottery jump with joy ?

(10 × 2 = 20 marks)

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III. Answer any *four* of the following questions in a paragraph. Each question carries 5 marks :

23 What proves Gandhi's righteousness ?

24 Images of Colonialism in "Freedom".

25 Native American criticism of the White man's treatment of mother earth.

26 Compare the character of Zlateh and Aaron.

27 The character of Louise Mallard.

28 Explain the dream with which "Refugee Blues" is concluded.

(4 × 5 = 20 marks)

IV. Answer any two of the following in an essay. Each question carries 15 marks :

29 Explain the salient features of the Preamble of the Constitution of India.

30 "On Killing a Tree" describes man's cruelty and violence to nature discuss.

31 Critically evaluate Adrienne Rich's concept of education ?

32 How does Limbale portray the caste-ridden Indian society ?

(2 × 15 = 30 marks)

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