C 3385	(Pages: 3)	Name

Reg.	No

Ph.D. ENTRANCE EXAMINATION, APRIL 2021

PHYSICAL EDUCATION

	III DIGITAL DE CONTROL
Time: Th	nree Hours Maximum : 100 Marks
I. Fill	l in the blanks. Answer all the questions :
1	The deoxygenated blood reaches to the heart through ———.
2	A lateral deviation of spine is called ———.
3	helps in the proper absorption and utilization of calcium and phosphorus in the body.
4	Glycogen is stored in ———— region of a muscle fibre.
5	When the force or tension in the muscle remains constant while the length of the muscle changes is called ————.
6	The normal curve is shaped as ———.
7	Hunch back is also called as ———.
8	A complex disease involving an excessive amount of body fat is ———.
9	——— plane divides the body into the front and back
10	Goniometer is a device that measures.
	$(10 \times 2 = 20 \text{ marks})$
II. Wr	ite answers in <i>one</i> word :
1	The boundary set forth the research study is called?
2	FIIT principle is related to what?
3	What is a specific statement of prediction in research?
4	How many medals won by India in 2021 Tokyo Olympics?
5	A research approach where opinions are collected from a sample of subjects is called?
6	Skill analysis in sports is done with which method?
7	When two groups are compared which statistical technique will be used?
8	Direct or first hand evidence about an event, object, person, or work is called?

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- 9 What for the Cooper 12 minute run/walk test used?
- 10 A process of extracting and discovering patterns in large data sets involving methods at the intersection of machine learning, statistics, and database systems is known as?

 $(10 \times 2 = 20 \text{ marks})$

III. State True or False. Answer all the questions:

- 1 Factorial design is a type of research methodology that allows for the investigation of the main and interaction effects between two or more independent variables and on one or more outcome variable(s).
- 2 Test-retest is used for testing validity.
- 3 Cognitive domain includes synthesis and evaluation.
- 4 Chronological age refers to the growth and development of the skeletal system.
- 5 ATP is a secondary source of energy.

 $(5 \times 2 = 10 \text{ marks})$

IV. Write short notes on any ten questions:

- 1 What is periodization? Explain.
- 2 What is SPSS?
- 3 What is primary data in research?
- 4 Case study is a research methodology that has commonly used in social sciences. Justify.
- 5 What is descriptive statistics? Explain.
- 6 Research is quest for undiscovered truth or knowledge. Explain.
- 7 Anthropometry is an area of research in physical education and sports. Explain.
- 8 Differentiate between aerobic and anaerobic energy systems.
- 9 How to measure lung volume using spirometry?
- 10 What is a literature review in research? Explain.
- 11 What is Analysis of Variance?
- 12 How to write a synopsis?

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- 13 What are the components of physical fitness?
- 14 Explain socio economic status scale.
- 15 Briefly explain the methods of assessing strength and cardiovascular endurance.

 $(10 \times 4 = 40 \text{ marks})$

V. Answer any one question:

- 1 What are the methods of sampling from a population? Explain.
- 2 How to write a sports feature article? Explain.

 $(1 \times 10 = 10 \text{ marks})$