(6 p	pages)					
	Reg. No. :					
Co	ode No.: 30385 E Sub. Code: AMZO 53					
	B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2022.					
	Fifth Semester					
	Zoology — Core					
	ANIMAL PHYSIOLOGY AND BIOCHEMISTRY					
	(For those who joined in July 2020 onwards)					
Tim	ne: Three hours Maximum: 75 marks					
	PART A — $(10 \times 1 = 10 \text{ marks})$					
	Answer ALL questions.					
	Choose the correct answer					
1.	Fructose can be more harmful than					
	(a) glucose (b) starch					
	(c) maltose (d) None of the above					
2.	Lecithin is a mixture ofthat are					

essential to cells in the human body

(b) mucoprotein

(d) fats

glycoprotein

(c) lipo protein

(a)	enzyme	(b)	hormone
(c)	HCL	(d)	all the above
12.7			ess of storing ex
gluc	ose for use by the b		
(a)	Glycogenesis	(b)	Glycogenolysis
(c)	Glycolysis	(d)	none of the abo
orga (a)	nic compounds rel respiratory pigme		nergy
(a)	respiratory pigme	ent	
(b)	Respiration		
(c)	part of lungs		
(d)	all the above		
	erosclerosis is the other substances i		
(a)	protein	(b)	cholesterol
(c)	carbohydrate	(d)	all the above
Syn	apses refer to the where		s of contact bet ation is passed
one	neuron to the next		
(a)	muscle	(b)	neurons

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8.	The	individual	bundles	of	muscle	fibers	in	a
	skeletal muscle are known as —							

- (a) fasciculi.
- (b) muscle system
- (c) vesicular
- (d) all the above

9. Hyperthyroidism are associated with

- (a) weight gain
- (b) weight loss
- (c) no loss or gain
- (d) all the above

- (a) starting
- (b) stoppage
- (c) no change
- (d) all the above

PART B —
$$(5 \times 5 = 25 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Describe the classification and types of protein?

Or

(b) Elucidate the cholesterol structure and function?

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12. (a) Express the role of enzymes in digesting carbohydrates?

Or

- (b) Summarise the different steps in glycogenesis?
- 13. (a) Describes the generalise structure of human kidney.

Or

- (b) Write short notes on ECG.
- 14. (a) Discuss about the structure and function of skeletal muscles?

Or

- (b) What are the steps involved in neuromuscular transmission?
- 15. (a) List out is the structure and function of pituitary gland?.

Or

(b) What are the three stages of the menstrual cycle?

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[P.T.O.]

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) What are essential and non essential amino acid gives example?

Or

- (b) Describe the structure and function of glycoprotein.
- 17. (a) List out the main steps and results of the Krebs cycle?

Or

- (b) Write the various types of absorption of digested food in your body?
- 18. (a) How is CO₂ and O₂ transported during respiration?

Or

- (b) What is the three major processes involved in Urine Formation?
- 19. (a) Explain the different steps of the sliding filaments theory?

Or

(b) Summarize the various stages of nerve conduction?

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20. (a) Write about the difference between ovaries and testes?

Or

(b) Describe the role of hormones play in the menstrual cycle?

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