

(6 pages)

Reg. No. :

Code No. : 7606

Sub. Code : KZOM 31/
PZOM 31

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

Third Semester

Zoology

ANIMAL PHYSIOLOGY

(For those who joined in July 2016 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

1. The key enzyme in the regulation of fatty acid synthesis is
 - (a) Acetyl coA carboxylase
 - (b) AMP activated proteinkinase
 - (c) Protein phosphatase
 - (d) None of the above

2. The major protein constituent of high density lipoprotein (HDL)
 - (a) Apolipoprotein A-1
 - (b) Apolipoprotein C-1
 - (c) Apolipoprotein E
 - (d) None of the above
3. In left side of the heart which one is responsible for pumping
 - (a) Oxygenated blood to the lungs
 - (b) Oxygenated blood to the body
 - (c) Deoxygenated blood to the body
 - (d) Deoxygenated blood to the lungs
4. The main structure of the integumentary system is
 - (a) Brain
 - (b) Lungs
 - (c) Heart
 - (d) Skin
5. The system that enables support the body and protect internal organ is
 - (a) Reproductive system
 - (b) Skeletal system
 - (c) Respiratory system
 - (d) Circulatory system

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6. The main passageway that Leads to the lungs from the throat is

- (a) Pharynx (b) Epiglottis
- (c) Esophagus (d) Trachea

7. The neuron cell made up of the following parts

- (a) Dendrite (b) Axon
- (c) Nucleus (d) All of the above

8. The common neurotransmitters include

- (a) Acetylcholine (b) GABA
- (c) Serotonin (d) All of the above

9. Insulin is represented as a

- (a) Vitamin (b) Lipid
- (c) Enzyme (d) Hormone

10. Leydig's cells present in

- (a) Ovary and estrogen
- (b) Liver and cholestrol
- (c) Pancreas and glycogen
- (d) Testis

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 250 words

11. (a) Explain the importance of carbohydrates.

Or

(b) Explain the process of digestion in human beings.

12. (a) Explain the general circulation system of fish.

Or

(b) Give a brief note on the structure of arteries and veins.

13. (a) Explain the process of gas movement through respiration membrane surface.

Or

(b) Give an account on the hormonal control of Osmoregulation.

14. (a) Neurotransmitters- Discuss.

Or

(b) Give an account on the structure and function of sensory organs.

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15. (a) Comment on excretory organs and their functions.

Or

- (b) Describe the structure and function of thyroid gland.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words

16. (a) Explain in detailed about protein metabolism.

Or

- (b) Describe the importance of vitamins and minerals with regard to human health.

17. (a) Illustrate the structure and function of human heart with suitable illustration.

Or

- (b) Give an account on circulatory system in human.

18. (a) Explain the structure and function of human lung with suitable illustration.

Or

- (b) Explain-Renal failure and Dialysis.

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19. (a) Explain the types and mechanism of muscular contraction.

Or

- (b) Write an essay on EEG.

20. (a) Write an essay on the functional interactions and metabolism of hormones.

Or

- (b) Give an elaborate account on the neuro-endocrine regulation of reproduction.
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