

(6 pages)

Reg. No. : .....

Code No. : 10584 E Sub. Code : CMZO 53

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2024.

Fifth Semester

Zoology — Core

ANIMAL PHYSIOLOGY

(For those who joined in July 2021-2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The tiny air sacs present in human lungs is called \_\_\_\_\_

- (a) Alveoli
- (b) Bronchus
- (c) Bronchioles
- (d) Trachea

2. The exchange of gases between the external environmental and the lungs \_\_\_\_\_

- (a) Respiration
- (b) External respiration
- (c) Cellular respiration
- (d) Internal respiration

3. The substances cannot pass through semi permeable walls of glomerulus

- (a) Globin                      (b) Albumin
- (c) Blood cells                (d) All of the above

4. This is the functional unit of kidney

- (a) Hilum                      (b) Neurons
- (c) Nephrons                 (d) Medulla

5. In muscle contraction, this ion is essential

- (a) Cl                            (b) Ca
- (c) K                             (d) Na

6. In striated muscles, the functional unit of contractile system is \_\_\_\_\_

- (a) Z-band                      (b) Cross bridge
- (c) Sarcomere                 (d) Myofibril

7. It receives sound vibration and passes to the eardrum  
(a) Outer ear (b) Middle ear  
(c) Inner ear (d) Eustachian tube
8. The membranous labyrinth contains  
(a) Cystolymph  
(b) Otolymph  
(c) Perilymph  
(d) Endolymph
9. \_\_\_\_\_ is a lytic enzyme released by the sperm  
(a) Hyaluronidase (b) Trypsin  
(c) Helicase (d) Ptyalin
10. Acrosome is filled with \_\_\_\_\_  
(a) Lipids  
(b) Hormones  
(c) Digestive enzymes  
(d) Starch

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 structure of haemoglobin.  
Or  
(b) Comment on Bohr effect.
12. (a) Enumerate the functions of blood.  
Or  
(b) Explain the structure of Nephron with diagram.
13. (a) Write notes on tetanus.  
Or  
(b) Describe Epilepsy.
14. (a) Comment on Cataract.  
Or  
(b) Explain mechanism of hearing.
15. (a) Discuss the structure of Testes.  
Or  
(b) Describe the structure 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) Discuss the role of enzymes in digestion and absorption of Lipids.

Or

- (b) Explain the structure of Lungs with diagram.

17. (a) Describe the structure of heart.

Or

- (b) Explain the formation of urine.

18. (a) Explain mechanism of muscle contraction.

Or

- (b) Comment on Reflex action.

19. (a) Explain the structure of eye with diagram.

Or

- (b) Describe the structure of ear with a neat diagram.

20. (a) Explain the structure of Ovary.

Or

- (b) Comment on Lactation.
-