

(6 pages)

Reg. No. :

Code No. : 30385 E Sub. Code : CMZO 53

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2025.

Fifth Semester

Zoology — Core

ANIMAL PHYSIOLOGY

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

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Select the enzyme which is present in saliva.
(a) Lipase
(b) Maltase
(c) Ptyalin
(d) Invertase

2. Choose the reddish violet colored pigment which is less efficient in oxygen carry in capacity.
(a) haemoerythrin
(b) chlorocruorin
(c) heamoglobin
(d) pinnaglobin
3. Which is the key factor for the blood clotting?
(a) magnesium (b) fibrin
(c) fibrinogen (d) sodium
4. Match the excretory products of Reptiles and birds.
(a) ammonia (b) urea
(c) uric acid (d) creatine
5. Identify the substance which is present in the synaptic vesicles of CNS.
(a) noradrenallin
(b) melatonin
(c) acetylcholine
(d) adrenallin

6. Identify the muscle present in the heart.
- striped muscle
 - cardiac muscle
 - smooth muscle
 - skeletal muscle
7. Choose the actual hearing organ.
- Organ of corti
 - Incus
 - Malleus
 - Stapes
8. Relate glaucoma with the following.
- Cataract
 - Long sight
 - Eye pressure
 - Short sight
9. Choose the name of onset of reproductive cycle.
- puberty
 - menopause
 - ovulation
 - fertilization
10. Match the hormone which is responsible for the contraction of mammary gland.
- oxytocin
 - FSH
 - vasopressin
 - LH

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Elaborate the Bohr's effect.
- Or
- (b) Explain the following :
- Osteomalacia
 - Beri beri.
12. (a) Explain about the Dialysis.
- Or
- (b) Explain the Electro cardio gram.
13. (a) Outline the neurotransmitters.
- Or
- (b) Write a note on Alzheimer's diseases.
14. (a) Differentiate myopia and hypermetropia.
- Or
- (b) Explain the gustatory organs.

15. (a) Summarize the ovulation process.

Or

(b) Outline the secretions and functions of islets of langerhans.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Elaborate the mechanism of Carbon di oxide transport.

Or

(b) Discuss the sources, functions and deficiency diseases caused by Vitamin C.

17. (a) Describe the Structure of human kidney.

Or

(b) Outline the Mechanism of blood clotting.

18. (a) Outline the different types of muscle.

Or

(b) Describe the structure of nerve cell.

Page 5 Code No. : 30385 E

19. (a) Elaborate the structure and functions of photoreceptor.

Or

(b) Explain the structure and mechanism of hearing organ.

20. (a) Pituitary is the Master gland. Discuss.

Or

(b) Outline the structure and secretions of thyroid gland.

Page 6 Code No. : 30385 E