

(6 pages)

Reg. No. :

Code No. : 10874 E Sub. Code : EEZO 21

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

Second Semester

Zoology — Allied

Elective – ALLIED ZOOLOGY – II

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The junction between two neurons is called
(a) dendron (b) sarcolemma
(c) axon (d) synapse
2. The excretory product of a mammal is
(a) Urea (b) Ammonia
(c) Uric acid (d) Guanine
3. The movement of the cells on the surface of the embryo is called
(a) emboly (b) blastopore
(c) epiboly (d) archenteron
4. The type of placenta seen in sheep is
(a) Zonary
(b) Diffuse
(c) Cotyledonary
(d) Discoidal
5. Which of the following is the secondary lymphoid organ?
(a) kidney (b) thymus
(c) spleen (d) bursa of fabricius
6. The immunity developed by man during his life is known as _____
(a) acquired immunity
(b) innate immunity
(c) natural immunity
(d) none

7. Standard arrangement of all the chromosomes of a cell
- (a) Karyotype
 - (b) Phenotype
 - (c) Genotype
 - (d) Xerotype
8. The term inborn errors of metabolism was coined by
- (a) Watson (b) Crick
 - (c) Garrod (d) Spencer
9. Empty hole of tree trunk is a shelter for
- (a) Bee (b) Wasp
 - (c) Fox (d) Owl
10. Courtship behaviour was first described by
- (a) Julian Huxley
 - (b) Morgan
 - (c) Muller
 - (d) Dobzhansky

PART B — (5 × 5 = 25 marks)

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

11. (a) Briefly describe the respiratory pigments in animals.
- Or
- (b) Describe the structure of neuron.
12. (a) Basic events of fertilization in frog – Explain.
- Or
- (b) Give an account of physiology of placenta.
13. (a) Highlight the properties of immunoglobulin.
- Or
- (b) Discuss the mechanism of cell mediated immune response.
14. (a) Write reference to skin colour in man, explain polygenic inheritance.
- Or
- (b) Autosomal Dominant inheritance – Discuss.

15. (a) Critically analyse the types of learning behaviour.

Or

- (b) Highlight nest construction.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the steps involved in Ornithine cycle.

Or

- (b) Explain the mechanism of vision.

17. (a) Describe in detail the development of brain of Frog embryo.

Or

- (b) Discuss the events of gastrulation of Frog.

18. (a) Give an account on the primary lymphoid organs.

Or

- (b) Describe the structure of immunoglobulin.

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19. (a) Phenylketonuria and alkaptonuria are inborn errors of metabolism – Discuss.

Or

- (b) What is X-linked inheritance? Explain two X-linked characters in detail.

20. (a) What is courtship behaviour and explain the types?

Or

- (b) Give an account on parental care in animals.

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