

Code No. : 30568 E Sub. Code : CMZO 21

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Second Semester

Zoology — Core

CHORDATA

(For those who joined in July 2021–2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following structures is present in all chordates?
 - (a) Cranium
 - (b) Notochord
 - (c) Spinal cord
 - (d) Vertebral column
2. In which of the following animals notochord does not persist throughout life?
 - (a) Amphioxus
 - (b) Ascidian
 - (c) Petromyzon
 - (d) Myxine

3. This is not a true amphibian animal
 - (a) Toad
 - (b) Salamander
 - (c) Tortoise
 - (d) Frog
4. Even after attaining sexual maturity larval characters are retained. This is known as _____
 - (a) Phylogenesis
 - (b) Neoteny
 - (c) Parthenogenesis
 - (d) Ontogenesis
5. Uricotelism is found in
 - (a) Frogs and toads
 - (b) Birds, land reptiles and insects
 - (c) Mammals and birds
 - (d) Fish and protozoans
6. The respiratory organ in reptiles is
 - (a) Gills
 - (b) Epidermis
 - (c) Skin
 - (d) Lungs
7. The body part, which is absent in birds
 - (a) Teeth
 - (b) Hindlimb
 - (c) Pectoral girdle
 - (d) Pelvic girdle

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8. The hollow bones and connected air sacs are the characteristic features of _____
 - (a) Reptilia
 - (b) Aves
 - (c) Mammals
 - (d) All the vertebrates
9. Which of the following mammals is a marsupial?
 - (a) Rabbit
 - (b) Kangaroo
 - (c) Elephant
 - (d) Human
10. Which of the following mammals has hairs adapted for defending against predators?
 - (a) Horse
 - (b) Fur seal
 - (c) Mouse
 - (d) Porcupine

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write an essay on migration of fishes.
- Or
- (b) Describe the affinities of hemichordates.

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12. (a) Write notes on limbless amphibians.
- Or
- (b) Write down the classification of amphibia upto order level.
13. (a) Discuss the methods of identifying non-poisonous snakes.
- Or
- (b) Explain the structure of poison apparatus.
14. (a) Comment on archaeopterya.
- Or
- (b) Write notes on feet modification in birds.
15. (a) Describe the circulatory system of mammals.

Or

- (b) Write an essay on adaptation of aquatic mammals.

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[P.T.O.]

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 detail about amphioxus.

Or

- (b) Write an essay on accessory respiratory organs of fishes.

17. (a) Write an account on amphibian's metamorphosis.

Or

- (b) Write an essay on Pauntal care in amphibian.

18. (a) Write an essay on identification of poisonous and non-poisonous snakes.

Or

- (b) Discuss the salient features of crocodilia.

19. (a) Explain the respiratory system of pigeon.

Or

- (b) Write an essay on migration in birds.

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20. (a) Explain the adaptations of aquatic mammals.

Or

- (b) Describe the "Brain" of rabbit.

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