

(6 pages)

Reg. No. : .....

Code No. : 10028 E Sub. Code : CMZO 21

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

Second Semester

Zoology – Core

CHORDATA

(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. First jawed vertebrates belong to class

- (a) Cyclostomata
- (b) Placodermi
- (c) Ostracodermi
- (d) Chondrichthyes

2. Which of the following is not a chordate character?

- (a) A dorsal or hollow tubular nerve cord
- (b) A longitudinal supporting rod like notochord
- (c) A series of pharyngeal gill slits
- (d) Diploblastic

3. Scales in the shark are

- (a) Cycloid
- (b) Ctenoid
- (c) Placoid
- (d) Ganoid

4. The accessory organ of respiration in lung fishes is

- (a) Swim bladder
- (b) Gills
- (c) Lungs
- (d) Urinary bladder

5. *Rana hexadactyla* is a member of the order

- (a) Stegocephala
- (b) Anura
- (c) Apoda
- (d) Urodela

6. The number of voluntary muscles in frog is about

- (a) 200
- (b) 300
- (c) 400
- (d) 500

7. The study of reptiles is known as  
(a) Ornithology (b) Herpetology  
(c) Ichthyology (d) Primatology
8. Heart in crocodile is  
(a) Completely 4 chambered  
(b) Incompletely 4 chambered  
(c) 3 chambered  
(d) 2 chambered
9. Birds are glorified  
(a) Reptiles (b) Vertebrates  
(c) Fishes (d) Amphibians
10. Milk dentition in mammals lack \_\_\_\_\_  
(a) Molars (b) Premolars  
(c) Canines (d) Incisors

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Briefly discuss about the general characters of prochordates.  
Or  
(b) Write short notes on the systematic position of Urochordata.

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12. (a) Give an account on the classification of Pisces.

Or

- (b) Explain the economic importance of fishes.

13. (a) Draw and explain the structure of nervous system in frog.

Or

- (b) Write a short note on the parental care in amphibians.

14. (a) Discuss briefly about the origin of reptiles.

Or

- (b) Explain the poison apparatus of poisonous snakes.

15. (a) Give a brief account on the flight adaptation in birds.

Or

- (b) Write short notes on general characters of the class Mammalia.

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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 the affinities and systematic position of Cephalochordata.

Or

- (b) Write a detail report on the origin of chordates.

17. (a) Give a general account on accessory respiratory organs in fishes.

Or

- (b) Write an essay on the migration of fishes.

18. (a) Draw the structure and illustrate the reproductive system of frog.

Or

- (b) Give a detailed report on the neoteny in Urodela.

19. (a) Give a detail note on the general characters of the class Reptilia.

Or

- (b) Differentiate between poisonous and non-poisonous snakes.

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20. (a) Give a detailed account on the digestive system in birds.

Or

- (b) Write an essay on the adaptive radiation in mammals.
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