

(6 Pages)

Reg. No. :

Code No. : 20556 E Sub. Code : CMZO 21

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

Second Semester

Zoology — Core

CHORDATA

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- Members of order Dipnoi are commonly known as
(a) pipe fishes (b) cow fishes
(c) cat fishes (d) lung fishes
- Which of the following is not an accessory respiratory organ in fishes?
(a) Skin or integument
(b) Pectoral fins
(c) Pelvic fins
(d) Gut epithelium

- Excretion in amphibians is
(a) Ammonotelic (b) Aminotelic
(c) Ureotelic (d) Uricotelic
- The third eyelid in frog is called _____
(a) Pineal eye
(b) Upper eyelid
(c) Lower eyelid
(d) Nictitating membrane
- In calotes, shedding of scally covering periodical in flakes is
(a) Neoteny (b) Metamorphosis
(c) Ecdysis (d) Pupation
- Which one of the following is poisonous snake?
(a) Typhlops (b) Cobras
(c) Ptyas (d) Python
- Birds are *ureotelic* animals because the excre waste consists of mainly urates and _____
(a) uric acid (b) urea
(c) ammonia (d) aminoacid

8. *Columba livia* is commonly called as
(a) Pigeon (b) Swifts
(c) Parrots (d) Wood peckers
9. Marsupium is present in
(a) Monotremes (b) Insectivores
(c) Chiropterans (d) Marsupialia
10. Largest mammalian order is
(a) Logomorpha (b) Rodentia
(c) Cetacea (d) Sirenia

PART B — (5 × 5 = 25 marks)

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

11. (a) Enlist the affinities of *Balanoglossus* with other animals.
- Or
- (b) Bring out the important characters of major classes of vertebrates with examples.

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12. (a) Discuss about any three orders of classification of amphibia.

Or

- (b) Write the general characters of amphibia.

13. (a) Explain the general character of reptiles.

Or

- (b) Examine the features present in female reproductive system of *Calotes*.

14. (a) Describe different kinds of bird migration.

Or

- (b) Explain the different flight adaptations in birds.

15. (a) Describe the structure of rabbit skin and enumerate its functions.

Or

- (b) Explain the adaptive radiation in aquatic mammals.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Discuss about retrogressive metamorphosis in Ascidian.

Or

- (b) Discuss about the different accessory respiratory organs in fishes.

17. (a) Give general account on metamorphosis of amphibians.

Or

- (b) Explain about parental care in amphibia.

18. (a) Describe the digestive system of a Calotes. How these are suited to their feeding habits?

Or

- (b) How do you identify poisonous and non-poisonous snakes?

19. (a) Describe the circulatory system of in Pigeon.

Or

- (b) Describe the respiratory mechanism and organs of respiration in *Columba*.

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20. (a) Describe the female urino-genital organs of rabbit.

Or

- (b) Explain about dentition in mammals.
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