

(6 pages)

Reg. No. :

Code No. : 7444

Sub. Code : ZZOM 12

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

First Semester

Zoology – Core

COMPARATIVE ANATOMY OF CHORDATES

(For those who joined in July 2021 – 2022 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which part is present in all chordates
- (a) Dorsal tubular nerve cord
(b) Umbilical cord
(c) Notocord
(d) Ventral tubular nerve cord

2. Tunicata comes under
- (a) Urochordata
(b) Cephalochordata
(c) Hemichordata
(d) Invertebrata
3. Lipophores of skin denotes
- (a) Red colour (b) Black colour
(c) White colour (d) Green colour
4. Cursorial feet is favor for
- (a) Swimming (b) Running
(c) Flying (d) Climbing
5. In vertebral column the centrum is concave at both end is
- (a) Ophisthocoelous (b) Acoelous
(c) Amphicoelous (d) Heterocoelous
6. The Rabbit palm of fore limb is supported by
- (a) Toes (b) Pelvic bone
(c) Metacarpals (d) Acetabulum

Page 2

Code No. : 7444

7. _____ is the example for single chambered heart.
- (a) Dog fish (b) Amphibia
(c) Birds (d) Branchiostoma
8. The brain is enclosed of
- (a) Rib bone (b) Ligament
(c) Vertebral column (d) Bony cranium
9. Oviduct of vertebrates are modified as
- (a) Mullerian duct (b) Wolffian duct
(c) Inguinal canal (d) Urinary duct
10. The dorsal surface of the tongue bears numerous elevations called
- (a) Scales (b) Papillae
(c) Tentacles (d) Cilia

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write briefly about hemichordata.

Or

- (b) Distinguish about Agnatha and Pisces.

12. (a) Give short notes of placoid scales of shark.
- Or
- (b) Briefly explain about derivatives of skin.
13. (a) Give short notes on functions of endoskeleton.
- Or
- (b) Briefly explain about hind limbs of chordates.
14. (a) Write about cranial nerves.
- Or
- (b) Conclude about aortic arches of fishes.
15. (a) Write about metanephrous kidney.
- Or
- (b) Summarize about lateral line sense organs.

Page 3

Code No. : 7444

Page 4

Code No. : 7444

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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) Classify phylum chordata with suitable example.

Or

- (b) Discuss about cephalochordata with suitable example.

17. (a) Illustrate about types of scales in fishes.

Or

- (b) Explain detail on structure and functions of vertebrates integument.

18. (a) Discuss in detail about axial skeleton of vertebrates.

Or

- (b) Illustrate about different types of tongues present in vertebrates.

19. (a) Justify about respiratory organs of fishes.

Or

- (b) Discriminate about central nervous system of vertebrates.

Page 5 Code No. : 7444

20. (a) Write about different types of ears of vertebrates.

Or

- (b) Evaluate about gonads and ducts of vertebrates.
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Page 6 Code No. : 7444