

**THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2020**

Zoology

ZOL 3B 03—ANIMAL DIVERSITY : CHORDATA—I

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all ten questions.  
Each question carries 1 mark.*

Identify the correct answer :

1. The animal that possess notochord throughout life is :
  - a) Fish.
  - b) Snake.
  - c) Bird.
  - d) Amphioxus.
2. Retrogressive metamorphosis is found in :
  - a) Balanoglossus.
  - b) Branchiostoma.
  - c) Herdmania.
  - d) All of the above.
3. Vertebral column is derived from :
  - a) Dorsal nerve chord.
  - b) Notochord.
  - c) Ventral nerve chord.
  - d) Outgrowth of cranium.
4. Cartilaginous fish do not contain :
  - a) Gill cover or operculum.
  - b) Fins.
  - c) Mouth.
  - d) Scales.
5. Paired fins of fishes are :
  - a) Dorsal and ventral.
  - b) Caudal and ventral.
  - c) Pectoral and pelvic.
  - d) Pectoral and caudal.

Name or fill up the following :

6. Neoteny is found in the larva of \_\_\_\_\_.
7. Herpatologists are biologists who focus on \_\_\_\_\_.

**Turn over**

8. Reptiles have \_\_\_\_\_ type of kidney.
9. *Rhacophorus* belongs to the order \_\_\_\_\_.
10. In adult amphibians nitrogen wastes are excreted as \_\_\_\_\_.

(10 × 1 = 10 marks)

**Part B**

Give short answers to any **ten** of the following questions.  
Each question carries 2 marks.

11. What features of amphibians make them dependent on water to survive ?
12. Name the subclasses of Class Reptilia.
13. What is Plastron ?
14. What is Jacobson's organ ?
15. Write short notes on *Uraeotyphlus*.
16. Write short notes on *Rastrelliger*.
17. Give four basic chordate characteristics.
18. Write the salient features of Class Larvacea. Give one example.
19. Write the key features of Agnatha.
20. Name the ventricles of frog brain.
21. Write short notes Alligator.
22. Write short notes on *Daboia*.

(10 × 2 = 20 marks)

**Part C**

Answer any **five** of the following questions in about **a paragraph** each.  
Each question carries 6 marks.

23. Give salient features of Sub-phylum Urochordata and classify up to class. With one example each.
24. Give an account on morphology of *Amphioxus*.
25. Write the features of class Chondrichthyes and classify up to order.
26. Give an account on urinogenital system of mullet.
27. Give an account on digestive glands of frog.
28. Write down the major features of the order Apoda and give adaptive features of *Ichthyophis*.