

D 92251

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Name.....51

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(CUCBCSS-UG)

Core Course—Zoology

ZO 3B 03—ANIMAL DIVERSITY—CHORDATA—I

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. Define heterocercal caudal fin.
2. Name a reptile whose heart is typically four chambered.
3. What is the function of swim bladder in fish ?
4. Name the larval stage in the development of *Ascidia*.
5. What is bilateral symmetry ?
6. What is placoid scale ?
7. Name a limbless amphibian.
8. Define the term coelom.
9. What are neuromast sense organs ?
10. Name a poisonous and a non-poisonous snake.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

Answer any ten questions.

Each question carries 2 marks.

11. What is venous heart . To which group it is characteristic ?
12. Name a flying lizard. How is it specialized for flying ?
13. Mention the diagnostic features of chordates.
14. Define the term poikilothermy. Name two poikilothermous vertebrate groups.
15. What is neoteny ? Mention an example.
16. What is neurotoxic snake venom ? Give an example.
17. Mention any four arboreal adaptations of *Chamaeleon*.
18. Sketch and label placoid scale.

Turn over

19. Mention the affinities of *Amphioxus* with chordates.
20. Write notes on *Trygon*.
21. What is urostyle ?
22. Write notes on cutaneous respiration in frog.

(10 × 2 = 20 marks)

Part C (Paragraph Questions)

Answer any five questions.
Each question carries 6 marks.

23. Explain retrogressive metamorphosis in urochordates.
24. Write notes on *Latimeria*.
25. Write an account on living fossil with examples.
26. Briefly describe the evolutionary significance of *Amphioxus*.
27. Comment on the biological significance of Axoloid larva.
28. Write notes on general characters of agnatha.
29. Write an account on lung fishes.
30. Distinguish between cartilaginous and bony fishes.

(5 × 6 = 30 marks)

Part D (Essay Questions)

Answer any two questions.
Each question carries 10 marks.

31. Write notes on any five of the following :—

(a) <i>Oikopleura</i> .	(b) <i>Petromyzon</i> .
(c) <i>Chimaera</i> .	(d) <i>Rastrelliger</i> .
(e) <i>Ichthyophis</i> .	(f) <i>Alligator</i> .
32. Enumerate the general characters and outline classification of class amphibia up to orders with suitable examples.
33. Give general characters of super class pisces up to orders with examples.
34. Describe salient features of sub-phylum cephalochordate. Discuss the affinities and systematic position of *Branchiostoma*.

(2 × 10 = 20 marks)