

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022
(Supplementary 2017 Admission)

ZOOLOGY

AZOL3B03T: ANIMAL DIVERSITY NON CHORDATA PART 1

Time: 3 Hours

Maximum Marks: 80

PART A: Answer All the questions. Each carries 1 mark.

1. What is tunicine?
2. Give the structure of placoid scale.
3. Comment on Latimaria.
4. What are the advanced characters of Chordata?
5. What is the popular name of *Amphioxus*?
6. Comment on Ammocoetus larva.
7. Give the scientific name of Elephant shark.
8. Comment on Axolotl larva.
9. What is Amphiuma?
10. What is Jacobson's organ?

(10 x 1=10 Marks)

PART B: Answer any Ten questions. Each carries 2 marks.

11. Give the systematic position of *Amphioxus*.
12. What are the differences between chordates and non-chordates?
13. Mention the evolutionary significance of Urochordata.
14. Compare the heart of Amphibia and Reptilia.
15. Give the characters of Oikopleura.
16. What is Neoteny?
17. What is wheel organ?
18. Explain the excretory organs of *Amphioxus*.
19. What is Chimaera?
20. Give the structure of 8th vertebra of Frog.
21. Comment on *Necturus*.
22. Give any four affinities of *Amphioxus*.

(10 x 2 = 20 Marks)

(PTO)

PART C: Answer any Five questions. Each carries 6 marks.

23. What is retrogressive metamorphosis? Explain with an example.
24. Give the features of cyclostoma with an example.
25. Explain the arterial system of Shark.
26. With help of diagram explain the structure of amphibian heart.
27. Write a note on Chondrichthyes.
28. Explain the arterial system of *Calotes*.
29. Write an account on the poisonous snakes of Kerala.
30. Comment on *Sphenodon*.

(5 x 6 = 30 Marks)

PART D: Answer any Two questions. Each carries 10 marks. .

31. Explain the respiratory system of shark.
32. List out the general characters of Class Amphibia and classify it upto orders with example for each.
33. Explain the respiratory mechanisms in Frog.
34. Explain the salient features of Class Reptilia and its Subclasses.

(2 x 10 = 20 Marks)