

B.Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022**SEMESTER 3 : ZOOLOGY****COURSE : 19U3CRZOO3 : ANIMAL DIVERSITY – CHORDATA***(For Regular - 2021 Admission and Improvement / Supplementary - 2020 / 2019 Admissions)*

Time : Three Hours

Max. Marks: 60

PART A**Answer All (1 mark each)**

1. The notochordal cells are covered by
a) Pericardium b) Myelin sheath c) Notochordal sheath d) Epimycium
2. What is Neoteny?
3. In which vertebrate class the hagfishes are included?
4. Name an extinct class of fishes?
5. Name the larval form of Ascidians?
6. What is synsacrum?
7. What is a portal system?
8. What are harderian glands?

(1 x 8 = 8)**PART B****Answer any 6 (2 marks each)**

9. Name the classes of fishes which come under the super class 'Pisces'
10. Explain the larval life of ammocoete larva.
11. Write a note on the cutaneous receptors.
12. What is the peculiarity of notochord in Urochordates?
13. Write about the evolutionary significance of Sphenodon.
14. Explain the salient features of order Anura.
15. Enumerate the salient features of order crocodilia
16. Classify mammalia upto subclasses with examples.

(2 x 6 = 12)**PART C****Answer any 4 (4 marks each)**

17. Compare the identification tools for poisonous and non-poisonous snakes
18. Discuss the salient features of the three superorders under the subclass Actinopterygii.
19. Describe the excretory system of rabbit.
20. Demonstrate the pectoral girdle of frog with diagram
21. What are the salient features of Superclass Pisces?
22. Write an essay on flight adaptations in birds

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. Discuss the taxonomy and affinities of *Amphioxus*.
24. Illustrate the classification of class Reptilia with salient features and example
25. Discuss with diagrams, different types of scales present among fishes.
26. Describe the structure of heart and its working in rabbit with a neat diagram of the heart.
(12 x 2 = 24)