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Register Number:

**DATE: 15-04-2019**

**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BANGALORE-27**

**B.Sc., – II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2019**

**ZO218 ANIMAL DIVERSITY OF CHORDATES**

Time- 2 ½ hrs Max Marks-70

***This paper contains two printed pages and four parts***

**PART A**

**I. Answer the following questions. Each question carries 1 mark 7X1= 7**

1. \_\_\_\_\_\_\_\_\_\_\_ is an agnathan with a suctorial buccal funnel.

2. Pelvic fin is modified into brood pouch in \_\_\_\_\_\_\_\_\_\_.

3. \_\_\_\_\_\_\_\_\_\_ is the common opening for digestive and urinogenital systems in frog.

4. Paddle-like laterally compressed tail is a feature of \_\_\_\_\_\_\_\_\_\_ snakes.

5. \_\_\_\_\_\_\_\_\_\_ is an example of Impennae.

6. Largest mammals on earth belong to the order \_\_\_\_\_\_\_\_\_\_\_.

7. \_\_\_\_\_\_\_\_\_\_\_ is the type of dentition formed by intricate folding of enamel and dentine.

**PART B**

**II. Briefly answer the following questions. Each question carries 2 marks 4 X2 = 8**

8. Differentiate between Anura and Apoda.

9. Comment on different types of snake venom and its effects.

10. List out the unique features of Archaeornithes.

11. ‘Protherians produce yolk-laden cleidoic eggs’. Give reason.

**PART C**

**III. Answer any five questions. Each question carries 5 marks 5 X5 = 25**

12. With the help of a suitable diagram, explain the phylogenetic significance of tornaria larva.

13. Mention the salient features of Agnatha and classify with suitable examples.

14. Comment on the parental care exhibited by *Pipa* and *Alytes*.

15. Briefly explain the origin of Amphibia.

16. Give a brief account of Mesozoic reptiles.

17. How are the flying birds different from flightless birds? Explain.

18. What are the endoskeletal modifications of a bird for aerial mode of life?

**PART D**

**II. Answer any three questions. Each one carries 10 marks 3X10= 30**

19. What is retrogressive metamorphosis? Explain with the help of Ascidian tadpole larva.

20. Describe the migration in fishes with special emphasis to salmon and eel.

21. Give a detailed account of neuro-endocrine control of metamorphosis in Amphibia.

22. ‘Mammals evolved from a single ancestral species to a variety of forms which occupy different habitats’. Explain.

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