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

Registration Number:

Date & Session

**B.Sc., Zoology –6th SEMESTER**

**SEMESTER EXAMINATION: APRIL 2024**

**(Examination conducted in May /June 2024)**

**ZO 6123 : CHORDATES AND COMPARATIVE ANATOMY**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 60**

**This paper contains TWO printed pages and THREE parts**

**PART-A**

**Answer the following 10 X 1 = 10**

1. ‘Unpaired dorsal fins’ are found in -----------------
2. What is the etiology of cyclostomata?
3. Identify the mismatch
4. Neoceratodus : Indonesia (Australia)
5. Protopterus : Africa
6. Lepidosiren : South America
7. Salmon : Atlantic
8. Urecotelic excretion is found in \_\_\_\_\_\_\_\_\_\_\_\_
9. \_\_\_\_\_\_\_\_\_\_\_ is a bird with forelimb digits ending in claws.
10. Teats are enclosed in the marsupium in \_\_\_\_\_\_\_\_\_\_\_.
11. Amphibians originated from \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. Hair/fur is primarily used for \_\_\_\_\_\_\_\_\_\_\_.
13. Which class of vertebrates has dry, cornified skin, epidermal scales and absence of external ears?
14. Protochordates reproduce both sexually and asexually. True/False.

**PART B**

**Answer any FIVE questions. Each question carries 5 marks 4 X 5 = 20**

11. Explain the mode of feeding in Amphioxus.

12. Differentiate between cartilaginous and bony fishes.

13. Write a note on the olfactory receptors in vertebrates.

14. Neuro-endocrine control of metamorphosis is inevitable in class amphibia. Substantiate the statement.

15. Differentiate between Ratitae and Carinatae.

16. Give an outline classification of class mammalia with suitable examples.

**PART - D**

**Answer any THREE questions. 3 X 10 = 30**

17. Briefly explain the anatomical adaptations for flight in birds.

18.Mention the salient features of primates and give an outline classification of primates

with examples.

19. With a neat labelled diagram, describe in detail the arterial system of frog.

20. Write an essay on the interesting features of dipnoi fishes.

21. Compare and contrast the excretory systems of fishes and birds with suitable diagrams.

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