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DATE: 21-04-2018 ( 9am )

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

**B.Sc., ZOOLOGY – II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2018**

ZO 215: Chordata

Time-2 ½ hrs Max Marks-70

*This paper contains two printed pages and three parts*

(For supplementary candidates)

Do not write the register number on the question paper

Please attach the question paper along with the answer script.

**PART A**

**I. Answer the following questions. Each question carries 1 mark 1X15=15**

1. Hermaphroditism is exhibited by \_\_\_\_\_\_\_\_\_\_

a) Rana b) Herdmania c) Petromyzon d) Amphioxus

2. Lophophorate theory is associated with \_\_\_\_\_\_\_\_\_\_

a) Gastrang b) Berril c) Romer d) Barrington

3. Median eye is a characteristic feature of \_\_\_\_\_\_\_\_\_\_

a) Petromyzon b) Sphenodon c) Limulus d) All of these

4. Sanguivorous feeding habit is found in \_\_\_\_\_\_\_\_\_\_.

a) Myxine b) Petromyzon c) Amphioxus d) Ascidia

5. Air bladder is absent in \_\_\_\_\_\_\_\_\_\_\_

a) Echeneis b) Flat fish c) Pristis d) All of these

6. Accessory respiratory organ in Clarias is \_\_\_\_\_\_\_\_\_\_

a) Arborescent organ b) Extrabranchial diverticulum c) Labryrinthine organ d) None of these

7. Small ventral scales are characteristic of \_\_\_\_\_\_\_\_\_\_\_

a) Viper b) Cobra c) Hydrophis d) Krait

8. Neoteny is the characteristic of \_\_\_\_\_\_\_\_\_

a) Hyla b) Ichthyophis c) Necturus d) None of these

9. Optic lobes are located in \_\_\_\_\_\_\_\_\_\_\_

a) Forebrain b) Midbrain c) Hindbrain d) None of these

ZO-215-A-17

10. Which one of the following is a lipid digesting enzyme?

a) Steapsin b) Amylopsin c) Trypsinogen d) None of these

11. Rhyncocephalia is represented by \_\_\_\_\_\_\_\_\_\_

a) Varanus b) Sphenedon c) Draco d) Crocodile

12. Which one of the following influences the neuro-endocrine metamorphosis?

a) Pituitary b) Thyroid c) Adrenal d) All of these

13. Two pairs of fossae are found in \_\_\_\_\_\_\_\_\_

a) Crocodile b) Varanus c) Python d) Draco

14. Which one of the following belongs to Artiodactyla?

a) Horse b) Sea horse c) Hippopotamus d) Rhinoceros

15. Presence of blubber is associated with \_\_\_\_\_\_\_\_\_\_\_

a) Prototheria b) Cetacea c) Carnivora d) Chiroptera

**PART B**

**II. Answer any five questions. Each one carries 5 marks 5X5=25**

16. With the help of suitable diagrams, explain the significance of Tornaria larva.

17. Describe the role of ammocoetes larva as a connecting link.

18. Point out the structural changes happened to the ancestral amphibians.

19. Comment on the types of respiration in Amphibia.

20. Differentiate between Ichthyosaurs and Pterosaurs.

21. What is adaptive radiation? Explain with reference to any two mammalian orders.

22. What are the reptilian features of Archaeopteryx?

**PART C**

**III. Answer any three questions. Each question carries 10 marks 3X10=30**

23. Explain in detail, retrogressive metamorphosis in tunicates with the aid of suitable illustrations.

24. How are the fishes adapted to an aquatic mode of life? Classify them upto orders with suitable examples.

25. With the help of a diagram, explain the arterial system of frog.

26. What are the aerial adaptations in birds? Explain.

27. Classify Primates with unique features and examples.