

Date:

Registration number:

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

B.Sc. ZOOLOGY - II SEMESTER

SEMESTER EXAMINATION: APRIL 2022

(Examination conducted in July 2022)

**ZO 215 - Chordata**

Time- 2 ½ hrs Max Marks-70

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

**PART A**

**I. Answer the following questions. Each question carries 1 mark 20X1= 20**

1. The thick leathery covering called tunic covers the body of \_\_\_\_\_\_\_\_\_\_\_

a) Amphioxus b) Ascidian c) Balanoglossus d) Petromyzon

2. The conical shaped structure in the body of Balanoglossus is called as \_\_\_\_\_\_\_\_\_\_\_.

a) Collar b) Proboscis c) Trunk d) Genital wings

3. The telotroch of tornaria larva helps in \_\_\_\_\_\_\_\_\_\_

a) Respiration b)Locomotion c) Attachment d) Protection

4. Lampreys and hagfishes belongs to \_\_\_\_\_\_\_\_\_\_\_

a) Elasmobranchi b) Actinopterygii c) Cyclostomata d) Holocephali

5. \_\_\_\_\_\_\_\_\_\_\_\_\_ is an example of a flying fish.

a) Anabas b) Exocoetes c) Clarias d) Saccobranchus

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ period is known as ‘the golden age of fishes’.

a) Cambrian b) Silurian c) Devonian d) Carboniferous

7. Parental care by male is exhibited by \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a) Ichthyophis b)Pipa c)Alytes d) Gastrothecus

8. \_\_\_\_\_\_\_\_\_\_\_\_ is the longest bone found in frog.

a)Humerus b) Femur c)Tibiofibula d) Astragalus-calcaneum

9. Number of pairs of cranial nerves in frog is \_\_\_\_\_\_\_\_\_\_\_\_\_.

a) 10 b) 8 c) 12 d) 14

10. Bicuspid teeth is present in \_\_\_\_\_\_\_\_\_\_\_ organisms.

a)Amphibians b)Cyclostomes c) Branchiostomes d) Hagfishes

11. \_\_\_\_\_\_\_\_\_\_\_ is known as a compound bone in the endoskeleton of frog.

a)Radiale b)Pubis c)Radioulna d) Fibula

12. Pemanent neoteny is exhibited by \_\_\_\_\_\_\_\_\_\_\_\_.

a) Necturus b)Ambystoma c)Salamander d) Axolotl

13. \_\_\_\_\_\_\_\_\_\_\_\_ is an example of a living fossil.

a) Draco b) Hydrophis c) Limulus d) Cobra

14. The evidences of fossil bird Archeopteryx was excavated from \_\_\_\_\_\_\_\_\_\_\_\_.

a) Africa b)Germany c)France d) India

15. The neck vertebra of birds are\_\_\_\_\_\_\_\_\_\_\_\_\_.

a) Procoelous b) Opistocoelous c) Heterocoelous d) Amphicoelous

16. \_\_\_\_\_\_\_\_\_\_\_\_\_ is the single gland present in the body of birds.

a) Oil gland b) Sweat gland c) Sebaceous gland d) Scent gland

17. \_\_\_\_\_\_\_\_\_\_\_ is a clawed finger in order Chiroptera.

a) First b) Second c) Third d) Fourth

18. Mammals originated from reptiles belonging to \_\_\_\_\_\_\_\_\_\_\_\_.

a)Parapsida b)Anapsida c)Synapsida d) Diapsida

19. Corpora quadrigemina is a characteristic feature of \_\_\_\_\_\_\_\_\_\_\_.

a) Amphibia b) Reptilia c) Aves d) Mammals

20. Ruminants belong to the order \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a)Artiodactyla b)Sirenia c) Hyracoidea d) Perissodactyla

**PART B**

**III. Answer any FIVE questions. Each question carries 6 marks 5 X 6 = 30**

21. With labelled diagrams, explain the structure of Ammocoetes larva.

22. Give a brief account of the origin of Amphibia.

23. Explain the different types of venom in snakes.

24. What are the terrestrial adaptations of reptiles?

25. Comment on the parental care exhibited by Pipa and Alytes.

26. What are the salient features of metatherian mammals? Explain.

27. Briefly explain the cusp patterns in herbivorous mammals.

**PART C**

**II. Answer any TWO questions. Each question carries 10 marks 2 X10= 20**

28. With the help of ascidian tadpole larve, explain retrogressive metamorphosis.

29. Give a detailed account of migration in fishes.

30. Explain the neuroendocrine control of metamorphosis in Amphibia.

31. What are the modifications in the anatomy of birds for an aerial mode of life? Explain.