

# KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:.....

Question Code: 26E00612

Course Code: 25UMZ021

UG Degree - End Semester Examinations, April 2026

Second Semester

B.Sc., ZOOLOGY

Chordata

(For those who joined in June 2025 onwards)

Time : 3Hours

Maximum: 75 Marks

## PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer:

- CO:1 1. Select the distinctive character of chordate.  
K:1  
(a) Absence of nerve cord (b) Absence of pharyngeal gill slits  
(c) Presence of notochord (d) Absence of RBC
- CO:1 2. Choose the common name of *Ascidian*.  
K:1  
(a) Sea squirt (b) Lancet  
(c) Sea lamprey (d) Hag fish
- CO:2 3. Find the larva of *Petromyzon*.  
K:1  
(a) Ammocoetes (b) Trochophore  
(c) Veliger (d) Bipinnaria
- CO:2 4. Recall the migration from fresh water to sea for breeding.  
K:1  
(a) Anadromous (b) Catadromous  
(c) Potomodromous (d) Oceanodromous
- CO:3 5. How many pairs of cranial nerves are present in an adult frog?  
K:1  
(a) 10 (b) 12  
(c) 11 (d) 14
- CO:3 6. Name the process in which the conversion of tadpole larva into adult frog.  
K:1  
(a) Microphorphosis (b) Megamorphosis  
(c) Metamorphosis (d) Prometamorphosis

- CO:4 7. Which among the following has a characteristic spectacle mark on  
K:1 the dorsal side of the hood?  
(a) Cobra (b) Krait  
(c) Viper (d) Enhydrina
- CO:4 8. Find the most important first aid step in case of snake bite.  
K:1  
(a) Cutting the wound (b) Sucking venom  
(c) Keeping the victim calm (d) Applying ice  
and immobile
- CO:5 9. Name the gland which secrete pigeons' milk in birds.  
K:1  
(a) Pancreas (b) Gastric gland  
(c) Mucous gland (d) Crop gland
- CO:5 10. Show the type of dentition where existence of two sets of teeth in  
K:2 the life of an animal.  
(a) Homodont dentition (b) Heterodont dentition  
(c) Diphyodont dentition (d) Deciduous Dentition

**PART - B (5 X 5 = 25 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not exceed 250 words.**

- CO:1 11. (a) Conclude the general characters of chordata.

K:4

**(OR)**

- (b) Examine the structure of Amphioxus with neat labelled sketch.

- CO:2 12. (a) Describe the external features of shark.

K:3

**(OR)**

- (b) Identify the general characters of Agnatha.

- CO:3 13. (a) Analyze the structure and functions of teeth in frog.

K:4

**(OR)**

- (b) Classify the general characters of the class Amphibia.

- CO:4 14. (a) Analyze the biting mechanism of a snake.

K:4

**(OR)**

- (b) Examine the first aid treatment given to a person with a snake bite.

CO:5 15. (a) Identify the external morphology of pigeon.

K:3

**(OR)**

(b) Develop the dental formula of mammals.

**PART - C (5 X 8 = 40 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not exceed 500 words.**

CO:1 16. (a) Examine the general characters of *Balanoglossus*.

K:4

**(OR)**

(b) Analyze the features of an ascidian and justify its systematic position among urochordates.

CO:2 17. (a) Categorize the different kinds of migration of fishes.

K:4

**(OR)**

(b) Analyze the different types of accessory respiratory organs found in fishes.

CO:3 18. (a) Defend the parental care in amphibia.

K:5

**(OR)**

(b) Criticize the phenomenon of neoteny in urodeles.

CO:4 19. (a) Analyze the different methods of identification of poisonous and non-poisonous snake.

K:4

**(OR)**

(b) Classify reptiles up to orders with distinguishing features.

CO:5 20. (a) Discuss the various adaptations of aquatic mammals.

K:4

**(OR)**

(b) Compile the adaptations that enable flight in birds.