

# **KAMARAJ COLLEGE (Autonomous)**

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

**(5 Pages)**

**Reg. No: .....**

**Question Code No : 25000608**

**Sub Code : 24UMZ021**

**UG Degree - End Semester Examinations, November 2025**

**Second Semester**

**B.Sc. ZOOLOGY**

**Chordata**

**(For those who joined in July 2024 onwards)**

**Time : 3 Hours**

**Maximum : 75 Marks**

**PART – A (10 × 1 = 10 Marks)**

**Answer ALL Questions**

**Choose the correct answer:**

1. Which of the following is a distinguishing feature of chordates?  
(a) Exoskeleton (b) Notochord  
(c) Open circulatory system (d) Ventral nerve cord
2. Which class does Amphioxus belong to?

- (a) Hemichordata                      (b) Urochordata  
(c) Cephalochordata                (d) Agnatha
3. In vertebrates, the notochord is replaced by:  
(a) Vertebral column                (b) Bone  
(c) Cartilage                            (d) Nerve cord
4. Scoliodon is commonly known as:  
(a) Catfish                                (b) Dogfish  
(c) Bony fish                              (d) Lungfish
5. Amphibians belong to which class of vertebrates?  
(a) Pisces                                 (b) Reptilia  
(c) Amphibia                              (d) Aves
6. *Rana hexadactyla* is commonly known as:  
(a) Common frog                        (b) Spadefoot toad  
(c) Tree frog                                (d) Indian bullfrog
7. Reptiles are classified under which class?  
(a) Amphibia                                (b) Reptilia  
(c) Mammalia                                (d) Aves
8. Which of the following is a non-poisonous snake?  
(a) Russell's viper                        (b) Cobra  
(c) Rat snake                                (d) Krait

9. Which of the following is a characteristic feature of mammals?
- (a) Cold-blooded nature      (b) Presence of dry, scaly skin
- (c) External fertilization      (d) Four-chambered heart in all species
10. The scientific name of the domestic pigeon is:
- (a) *Columba livia*      (b) *Gallus gallus*
- (c) *Passer domesticus*      (d) *Corvus splendens*

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

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

**Answer should not exceed 250 words.**

11. (a) Write down the outline classification of chordata.
- (OR)**
- (b) Discuss the systematic position of Amphioxus.
12. (a) Explain the general characteristic features of Shark.
- (OR)**
- (b) Describe the migratory fishes with suitable examples.
13. (a) List out the general characteristic features of Amphibian.
- (OR)**

(b) Explain the adaptive features of Anura.

14. (a) Comment on poison apparatus and biting mechanism of poisonous snakes.

**(OR)**

(b) Explain the digestive system of Calotes.

15. (a) Explain about the flight adaptation in birds.

**(OR)**

(b) Analyze the arrangement of mammal's dentition.

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

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

**Answer should not exceed 500 words.**

16. (a) Explain the general characters, affinities and systematic position of Ascidian.

**(OR)**

(b) Explain the general characters and affinities of Balanoglossus.

17. (a) Describe the accessory respiratory organs in fishes.

**(OR)**

(b) Explain types of scales and fins.

18. (a) Discuss about the parental care in Amphibians.

**(OR)**

(b) Enumerate the structure of digestive system of frog.

19. (a) Draw and explain the nervous system in Calotes.

**(OR)**

(b) Explain the characteristic features of extinct reptiles with suitable examples.

20. (a) Describe the respiratory system in Pigeon.

**(OR)**

(b) Write an essay on (a) Flying mammals (b) Aquatic mammals with an example.