



Reg. No. :

Name :

**III Semester B.Sc. Degree (C.B.C.S.S.-O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2024
(2019 to 2023 Admissions)
CORE COURSE IN ZOOLOGY
3B03ZLG : Chordata – I**

Time : 3 Hours

Max. Marks : 40

- I. Essay questions (Each question carries 8 marks) Answer any two : (2×8=16)
- 1) Discuss the salient features of Urochordates, with special emphasis on *Ascidia* and its retrogressive metamorphosis.
 - 2) Explain the respiratory organs and the mechanisms of respiration in frog.
 - 3) Give an account on classification of Pisces down to orders with salient features and suitable examples.
 - 4) Compare the circulatory systems of fishes, amphibians and reptiles.
- II. Short essay questions (Each question carries 4 marks) Answer any two : (2×4=8)
- 5) Write a note on the discovery and significance of *Nasikabatrachus sahyadrensis*.
 - 6) Explain the life cycle and morphology of *Branchiostoma*.
 - 7) What are the salient features of Class Reptilia ?
- III. Short answer questions (Each question carries 2 marks) Answer any six : (6×2=12)
- 8) Comment on Axolotl larva.
 - 9) What are the salient features of the Class Osteichthyes ?
 - 10) Explain the significance of Ammocoetes larva.
 - 11) Sketch and label the Placoid scale.
 - 12) What are the fundamental characteristics of chordates ?
 - 13) Write notes on Caecilians.
 - 14) Adaptive features of Rhacophorus.
 - 15) Explain why the class Larvacea of the subphylum Urochordata is so called.

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- IV. Multiple Choice Questions (Each question carries 0.5 marks) Answer all : (8×0.5=4)
- 16) Which of the following belongs to class elasmobranchii ?

a) <i>Chimaera</i>	b) <i>Scoliodon</i>
c) <i>Neoceratodus</i>	d) <i>Latimeria</i>
 - 17) The primitive chordate *Branchiostoma* is classified under

a) Urochordata	b) Cephalochordata
c) Vertebrata	d) Agnatha
 - 18) Which amphibian demonstrates paedomorphosis ?

a) <i>Bufo</i>	b) <i>Axolotl</i>
c) <i>Ambystoma</i>	d) <i>Ichthyophis</i>
 - 19) A lobe-finned fish example is

a) <i>Sardinella</i>	b) <i>Latimeria</i>
c) <i>Mugil</i>	d) <i>Channa</i>
 - 20) Which is an example of lungfish ?

a) <i>Hippocampus</i>	b) <i>Protopterus</i>
c) <i>Scoliodon</i>	d) <i>Trygon</i>
 - 21) The process of neoteny in Urochordata refers to

a) Sexual maturity while retaining larval characteristics
b) Complete metamorphosis
c) Direct development without larval stages
d) Retrogressive metamorphosis
 - 22) Which of the following reptiles belongs to the order Rhynchocephalia ?

a) <i>Crocodylus</i>	b) <i>Sphenodon</i>
c) <i>Chamaeleon</i>	d) <i>Chelone</i>
 - 23) The ammocoetes larva of petromyzon resembles which of the following ?

a) Urochordata	b) <i>Branchiostoma</i>
c) <i>Scoliodon</i>	d) <i>Chimaera</i>