2026

ZOOLOGY

(Major)

Paper : ZLG4200104MJ

(Diversity of Chordates)

Full Marks : 45

Time : 2 hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct answer : 1×5=5

(i) The dipluerula larva is associated with

(a) Arthropoda

(b) Echinodermata

(c) Mollusca

(d) Annelida

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(ii) Which of the following is a protochordate?

(a) Frog

(b) Amphioxus

(c) Lizard

(d) Pigeon

(iii) The notochord persists throughout life in

(a) Urochordata

(b) Cephalochordata

(c) Vertebrata

(d) Hemichordata

(iv) Cartilaginous fishes belong to

(a) Osteichthyes

(b) Chondrichthyes

(c) Cyclostomata

(d) Amphibia

(v) Archeopteryx is considered as

(a) A reptile

(b) A mammal

(c) A connecting link

(d) An amphibian

2. Write short notes on (any *five*) : 2×5=10

(a) General characteristics of Hemichordate

(b) Larval forms of protochordates

(c) Axial skeleton in vertebrates

(d) Jaw suspensorium

(e) Cyclostomes – general features

(f) Dentition in mammals

(g) Vertical migration of fishes

(h) Flight muscles

(i) Order Myxiniformes

(j) Foam nest

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3. Answer any *four* from the following : 5×4=20

(a) Explain the origin of chordates with reference to echinoderm theory.

(b) Describe the general characteristics of protochordates.

(c) Compare Urochordata and Cephalochordates.

(d) Explain the structure and function of the appendicular skeleton.

(e) Difference between poisonous and non-poisonous snake.

(f) Write an account on Chondrichthyes with examples.

(g) Discuss parental care in amphibians.

(h) Describe detail about migration of fish.

4. Answer any *one* from the following : 10

(a) What are egg-laying mammals? Describe their general characters, habitat and distribution. How do monotremes resemble the reptiles?

(b) Discuss the evolution of jaw and visceral arches in vertebrates.

(c) Explain the origin and evolution of tetrapod with suitable examples.

(d) Describe general characteristics and classification of Aves.

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