

Bachelor of Science (B.Sc.) Semester—III (C.B.S.) Examination

ZOOLOGY (Life & Diversity of Animals-Chordates)

Paper—I

(Protochordata to Amphibia)

Time : Three Hours]

[Maximum Marks : 50

Note :— (1) **ALL** questions are compulsory.

(2) All questions carry equal marks.

(3) Illustrate your answers with suitable diagrams.

1. Give an account of Blood Vascular System in *Amphioxus*. 10

OR

Write notes on :

(A) Retrogressive metamorphosis in Ascidian tadpole 5

(B) Characters of Myxine. 5

2. Give an account on Accessory Respiratory organs in fishes. 10

OR

Write notes on :

(A) Origin of paired fins 5

(B) Neoteny in Amphibia. 5

3. Describe the major events that occur in the process of fertilization. 10

OR

Write notes on :

(A) Formation of spermatids 5

(B) Vitellogenesis. 5

4. Describe Frog Embryology upto gastrulation. 10

OR

Write notes on :

(A) Blastula of frog 5

(B) Aortic arches of frog. 5

5. Write **four** or **five** lines on the following (any **ten**) :

(i) Cephalochordata

(ii) Endostyle

(iii) Lamprey

(iv) Catadromus

(v) Chondrichthyes

(vi) Urodela

(vii) Oogenesis

(viii) Amphimixis

(ix) Hypoblast

(x) Cleavage

(xi) Falemap

(xii) Notogenesis.

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