

**Bachelor of Science (B.Sc.) Semester—III (C.B.S.) Examination**  
**ZOOLOGY (Life & Diversity of Animals-Chordates Protochordata to Amphibia)**

**Paper—I**

Time : Three Hours]

[Maximum Marks : 50

**N.B. :**— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Illustrate your answers with suitable diagrams.

1. Draw and describe the structure of Ascidian tadpole and explain the retrogressive metamorphosis. 10

**OR**

Write short notes on :

(A) Petromyzon. 5

(B) Sense organs in *Amphioxus*. 5

2. Define migration. Explain migration in Fishes. 10

**OR**

Write short notes on :

(A) Salient features of osteichthyes. 5

(B) General characters of Amphibia. 5

3. Give an account on Fertilization of egg. 10

**OR**

Write short notes on :

(A) Types of Eggs. 5

(B) Development of placoid scale. 5

4. Give an account of cleavage and blastulation in frog. 10

**OR**

Write short notes on :

(A) Development of lungs in Frog. 5

(B) Internal gill stage of Frog. 5

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

(i) Oral hood

(ii) Myxine

(iii) Protonephridia

(iv) Arborescent organ

(v) Foam nest

(vi) Neoteny

(vii) Sertoli cell

(viii) Cycloid scale

(ix) Fry

(x) Vegetal pole

(xi) Epiboly

(xii) Fate map. 10