Bachelor of Science (B.Sc.) Semester–III Examination

ZOLOGY (LIFE & DIVERSITY OF ANIMALS-CHORDATES)

Optional Paper–I

Time : Three Hours
[Maximum Marks : 50

N.B. :— (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Illustrate your answer with suitable diagrams.

1. Give an account on digestive system in *Herdmania*. 10

**OR**

Write notes on :

(A) Retrogressive Metamorphosis in Ascidian tadpole 5
(B) Protonephridia in *Amphioxus*. 5

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

**OR**

Write notes on :

(A) Parental care in Amphibia 5
(B) General characters of class Amphibia. 5

3. Give an account of mechanism of fertilization. 10

**OR**

Write notes on :

(A) Development of Placoid scale 5
(B) Oogenesis. 5

4. Give an account on morphogenetic movements in gastrula of frog. 10

**OR**

Write notes on :

(A) Fate map of frog blastula 5
(B) Development of Aortic arches in frog. 5

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

(i) Doliolum
(ii) Eye spots
(iii) *Petromyzon*
(iv) Catadromous migration
(v) Neoteny
(vi) Osteichthyes
(vii) Cycloid scale
(viii) Cleidoic eggs
(ix) Spermatid
(x) Blastocoel
(xi) Gray crescent
(xii) Archenteron. 10