

Bachelor of Science (B.Sc.) Semester-III Examination
ZOOLOGY
(Life & Diversity of Animals—Chordates)
Paper—I

Time—Three Hours] [Maximum Marks—50

N.B. :— (1) All questions are compulsory
(2) All questions carry equal marks.
(3) Draw well labelled diagrams wherever necessary.

1. Write in brief structure of ascidian tadpole larva and add a note on retrogressive metamorphosis. 10

OR

Write notes on :

(A) Give an account of excretory system of *Amphioxus*. 5

(B) Structure of pharynx of *Amphioxus*. 5

2. Give an account on migration in fishes and add a note on its causes. 10

OR

Write notes on :

(A) Parental Care in Anura	5	(iv) Air bladder
(B) Neotony in Amphibia.	5	(v) Chondrichthyes
3. Describe in detail the process of Fertilization.	10	(vi) Apoda
		(vii) Spermiogenesis
		(viii) Antifertilizin

OR

Write notes on :

(A) Development of Placoid scales	5	(ix) Cycloid Scale
(B) Larval stages of Fish.	5	(x) Micromeres
4. Write in brief the development of respiratory organs in Frog.	10	(xi) Epiboly
		(xii) Systemic Arch.
		1×10=10

OR

Write notes on :

(A) Cleavage and Blastulation	5
(B) Draw a well labelled diagram of external gill stage of Frog.	5
5. Write Four on Five lines on the following (Any Ten) :	

- (i) Sensory Vesicle
- (ii) Wheel Organ
- (iii) Atrium

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Note :- MSS says "Protochardata to Amphibia". Press has followed Heading Envelope.

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