

Roll No.

Exam Code : M-21

Subject Code—52542

B. Sc. EXAMINATION

(Reappear Batch 2017)

(Third Semester)

ZOOLOGY

Paper-I

Life and Diversity of Chordates-I

Time : 3 Hours

Maximum Marks : 40

Note : Question No. 1 is compulsory. Answer to each part should not exceed **20** words. Out of remaining eight question, attempt *four* questions, selecting *two* questions from each Section. All questions carry equal marks.

(Compulsory Question)

1. (a) Define Neoteny.
- (b) What is the function of spiral valve in Lamprey ?

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- (c) What do you mean by Placoid scale ?
- (d) What is Venous heart ?
- (e) Define Endostyle.
- (f) What is the function of wheel organ ?
- (g) What is Ovo-viviparous ? Give an example.
- (h) What is Test ?
- (i) Define Catadromous migration with suitable example.
- (j) What is Cephalic Pigment Spot ? $1 \times 10 = 10$

Section A

- 2. Explain evolutionary tree of Chordates. $7\frac{1}{2}$
- 3. (a) Describe general anatomy of Herdmania. 4
- (b) Draw well labelled diagram of Pharynx of Herdmania. $3\frac{1}{2}$
- 4. Explain the following with diagrams :
 - (a) Velum of Amphioxus $2\frac{1}{2}$
 - (b) Oral Hood $2\frac{1}{2}$
 - (c) Primary and Secondary Gillbar. $2\frac{1}{2}$

- 5. Classify Vertebrate upto class level. Also write unique characters and examples of each group. $7\frac{1}{2}$

Section B

- 6. What do you mean by Migration in fishes ? Explain reasons of migration and types of migration. $7\frac{1}{2}$
- 7. (a) Write a note on types of scales in fishes. 4
- (b) Describe the theories of origin of fins in fishes. $3\frac{1}{2}$
- 8. Explain the following :
 - (a) Lateral line system $2\frac{1}{2}$
 - (b) Olfactory Apparatus $2\frac{1}{2}$
 - (c) Air bladder. $2\frac{1}{2}$
- 9. (a) Describe Digestive system of Petromyzon. 4
- (b) Explain sense organs of Petromyzon. $3\frac{1}{2}$