

Roll No.

(01/22-II)

5206

B. Sc. EXAMINATION

(Third Semester)

ZOOLOGY

Paper-I

Life and Diversity of Chordates-I

Time : Three Hours

Maximum Marks : 40

Note : Q. No. 1 is compulsory consisting of ten parts. Answer should not exceed 20 words each. Section A and Section B consist of four questions each. Candidates are required to attempt total *four* questions, selecting *two* questions from each Section.

1. (i) What is the function of endostyle ?
- (ii) What is holobranch ?
- (iii) What is the function of swim bladder ?
- (iv) What is anadromous migration ?

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- (v) What is the function of wheel organ ?
- (vi) What is a sanguivorous animal ?
- (vii) What is atriopore ?
- (viii) What are protochordates ?
- (ix) What are gill rakers ?
- (x) What is homodont dentition ? $1 \times 10 = 10$

Section A

2. (i) Give outline of classification of chordates up-to classes. $2\frac{1}{2}$
- (ii) Draw a well labelled diagram of digestive system of *Branchiostoma*. 5
3. (i) Explain neural complex of *Herdmania* with diagram. 5
- (ii) What is the difference between primary and secondary gill bars of *Branchiostoma*. $2\frac{1}{2}$
4. (i) Discuss different theories of the origin of chordates. 5

(ii) Describe the structure of gonads of *Herdmania*. 2½

5. (i) Explain reproductive system of *Branchiostoma*. 5

(ii) Describe different types of spicules present in *Herdmania*. 2½

Section B

6. (i) Describe the structure and evolutionary significance of Ammocoetes larva of *Petromyzon*. 5

(ii) Explain different types of tails in fishes. 2½

7. (i) Explain urinogenital system of *Labeo*. 5

(ii) Write a short note on metamorphosis in *Petromyzon*. 2½

8. (i) Describe migration in fishes. 5

(ii) Explain the mechanism of respiration on *Labeo*. 2½

9. (i) Write a short note on air bladder in fishes.

2½

(ii) Classify cartilaginous fishes up-to order with examples.

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