

Roll No.

(12/24)

5206

B. Sc. EXAMINATION

(Third Semester)

(For Batch 2011 & Onwards)

ZOOLOGY

Paper-II

Life and Diversity of Chordates-I

Time : Three Hours

Maximum Marks : 40

Note : Attempt *Five* questions in all, selecting *two* questions from each Section. Q. No. 1 is compulsory.

1. Define the following terms : $1\frac{1}{2} \times 10 = 15$

- (a) Atrium
- (b) Dorsal Tubercle
- (c) Muller organ
- (d) Sanguivorous

- (e) Opisthonephric Kidney
- (f) Weberian ossicles
- (g) Acrodont teeth
- (h) Diphyccercal fin
- (i) Catadromous
- (j) Hatschek's nephridia.

Section A

2. What is filter feeding ? Describe the digestive system of *Herdmania*. 6.25
3. Write notes on the following :
 - (a) Test or tunica 3.25
 - (b) Protonephridia of *Amphioxus*. 3
4. Explain the following :
 - (a) Basic character of Chordates 2.25
 - (b) Describe the general character and affinities of Cephalochordata with vertebrates. 4
5. Describe the circulatory system of *Amphioxus*. 6.25

Section B

6. Write notes on the following :
 - (a) Visceral skeleton of *Petromyzon* 3.25
 - (b) Buccal Funnel. 3
7. Write short notes on the following :
 - (a) Explain the respiratory system of *Petromyzon*. 3.25
 - (b) Describe the fins in Fishes. 3
8. Write notes on the following :
 - (a) Ctenoid Scales 3
 - (b) Describe the forebrain of *Labeo*. 3.25
9. Explain the circulatory system in *Labeo*. 6.25