

GSM/D-21**938****LIFE AND DIVERSITY OF CHORDATES-I****Paper-I**

Time Allowed : 3 Hours]

[Maximum Marks : 40

Note : Attempt **five** questions in all, selecting **two** questions from each Unit. Question No. **1** is compulsory. Support your answer with neat and well labelled diagram wherever necessary.

Compulsory Question

1. Answer the following in about 20 words each: 10×1=10
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|-------------------------------|---------------------|
| (a) Three Chordate Characters | (b) Gnathostomata |
| (c) Urochordata | (d) Ciliary Feeder |
| (e) Endostyle | (f) Cycloid Scale |
| (g) Homocercal | (h) Branchial cleft |
| (i) Catadromous Migration | (j) Neoteny. |

UNIT-I

2. (a) Describe the Endostyle of *Herdmania*. 3½
 (b) Draw well labeled diagram of Reproductive System of *Herdmania*. 4
3. (a) Draw a well labeled diagram T.S of *Amphioxus* through Pharyngeal Region. 4
 (b) Describe Protonephridia of *Amphioxus*. 3½
4. Briefly describe the Circulatory System of *Amphioxus*. 7½
5. Discuss the general characteristics features of Phylum Cephalochordata and also classify Cephalochordata upto Order Level with examples. 7½

UNIT-II

6. Discuss the Digestive System of *Petromyzon*. 7½
7. (a) Describe the various types of Scales found in Fishes. 4½
 (b) Write only names of Cranial Nerves of *Labeo*. 3
8. Describe the Migration in Fishes. 7½
9. Discuss in detail Respiratory System of *Labeo*. 7½