

Attempt FIVE Questions in all, Section-A is Compulsory. Select FOUR questions from Section-B.
 Give neat and clean diagrams where necessary.

SECTION-A

1- Write short answers to the following questions:

1x8

- i) What is Balanced Polymorphism?
- ii) Describe Reproductive Isolation.
- iii) Define Plumage and give its functions.
- iv) Differentiate between Homodont and Heterodont.
- v) Differentiate between Altricial and Precocial young birds.
- vi) What is Tornaria?
- vii) What do you know about Geckos?
- viii) Define the term Tetrapods.

SECTION-B

- 2-** a) Give characteristics of Phylum Chordata and Hemichordata. 4
 b) Explain reproduction and development in Fishes as adaptive strategy. 3.5
- 3-** a) Describe adaptations in circulation and gas exchange of Fishes. 4
 b) Write a note on Gnathostomes. 3.5
- 4-** a) Give classification of living amphibian upto order level with key characteristics and examples. 4
 b) Explain Vocalization in Amphibians. 3.5
- 5-** a) Describe Reptilian nutrition and Digestive system adaptations. 4
 b) Write a note on order Testudines. 3.5
- 6-** a) Give adaptations of birds for flight and locomotion. 4
 b) Explain migration and navigation in birds. 3.5
- 7-** a) Describe Mammalian order Cetacea and order Carnivora. 4
 b) Write a note on teeth of mammals. 3.5
- 8-** a) Describe Darwin's theory of Evolution by Natural Selection. 4
 b) Explain Paleontology and Geography as an evidence of evolution. 3.5
- 9-** a) Explain the process of speciation. 4
 b) Write a note on Modes of Selection. 3.5