

CSM – 70 / 15
Zoology
Paper – I

Time : 3 hours

Full Marks : 300

The figures in the right-hand margin indicate marks.

*Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and **three** of the remaining questions, selecting at least **one** from each Section.*

Section – A

1. Write short notes on any **three** of the following in about **200** words each : 20×3 = 60
 - (a) Canal system of Porifera
 - (b) Metamerism in Annelida
 - (c) Different types of fish migration
 - (d) Biting mechanism of Snake
2. Briefly narrate the mechanism of formation and classification of coral reefs. Add a note on their ecological significance. 60

3. Portray the different stages of life cycle of **Paramecium** sp. illustrating with diagrams. 60
4. Describe the structural peculiarities and affinities of **Sphenodon** sp. 60

Section – B

5. Write short notes on any **three** of the following in about **200** words each : $20 \times 3 = 60$
 - (a) Biodiversity hot-spots
 - (b) Circadian rhythm
 - (c) Transmission, symptoms and treatment for AIDS and Cholera
 - (d) Methods of sampling
6. Describe all the different biotic and abiotic components of the ecosystem. 60
7. Write short note on acid rain. Give a detailed depiction of types and mechanism of learning. 60
8. Describe the underlying principles and application of different types of chromatography. 60

