

**CSM – 70/19**

**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 any **three** of the remaining questions, selecting at least **one** from each Section.*

**SECTION – A**

1. Write a brief account on any **three** of the following in about **200** words each : 20×3 = 60
  - (a) State the characteristic features of the Phylum Mollusca. Classify Phylum Mollusca with salient features upto the orders. Give examples.
  - (b) Describe the canal system of sponges with neat diagram. State its significance.

- (c) Write a note on flight modification in birds.
- (d) Parental care in amphibia.
2. Describe the life history of **Ascaris** sp. Comment on its parasitic adaptations. 60
3. State the water vascular system of Echinodermata. Mention its importance. 60
4. Give a comparative account of heart in Vertebrates. 60

### SECTION – B

5. Write a brief account on any **three** of the following in about **200** words each : 20×3 = 60
- (a) Concept of Population
- (b) Ex-situ and In-situ conservations
- (c) Social behaviour in insects
- (d) Sericulture in India
6. What is zoonoses. Classify it. Discuss Malaria in the light of Zoonotic potential. 60

7. (a) Role of pheromones in regulation of animal behaviour. 30
- (b) Wild life and its management. 30
8. (a) Basic principles and application of Scanning Electron Microscopy (SEM). 30
- (b) Methods of Chromatography. 30

