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| <b>CSM – 70/16</b> |
| <b>Zoology</b>     |
| <b>Paper – I</b>   |

*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 a brief account on any **three** of the following in about **200** words each : 20×3 = 60
  - (a) Origin of metazoa
  - (b) Types of Coelom
  - (c) Origin and evolution of amphibia
  - (d) Dentition in mammals
2. Briefly narrate the water vascular system of Echinodermata. State the significance of larval forms of Echinodermata. 60

3. Portray the different stages of life cycle of **Plasmodium** sp. illustrating with diagrams. 60
4. Describe the difference between poisonous and non-poisonous snakes. Add a note on biting mechanism of snakes. 60

### SECTION – B

5. Write a brief account on any **three** of the following in about **200** words each :  $20 \times 3 = 60$ 
  - (a) Biological clock
  - (b) Difference between SEM and TEM
  - (c) Transmission, symptoms and treatment for malaria
  - (d) Measurement of central tendency
6. Describe the process of succession in an aquatic ecosystem. Write a short note on ozone layer depletion.  $30 \times 2 = 60$
7. Give a detailed procedure of Induced breeding in carp culture. Add a short note on Pearl culture. 60
8. Describe the underlying principles and application of different types of light microscopy. 60

