

CSM – 70/17

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 short notes on any **three** of the following in about **200** words each : 20×3 = 60
 - (a) Coelom : Its types and origin
 - (b) Mouth parts of insects
 - (c) Neoteny
 - (d) Thyroid hormone
2. Describe life history of **Taenia**. 60
3. Give an account of larval forms of Echinodermata and their phylogenetic significance. 60

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(Turn over)

4. Discuss the affinities and phylogeny of Hemichordata. 60

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SECTION – B

5. Write short notes on any **three** of the following in about **200** words each : 20×3 = 60
- (a) Induced breeding
 - (b) Ecological niche
 - (c) Scanning electron microscopy
 - (d) Social life in honey bee
6. Discuss models of energy flow in various types of ecosystems. 60
7. What is intellectual property right ? Discuss, in detail, the different forms of its protection. 60
8. What is correlation ? Discuss its types and give the methods of studying correlation (Scatter diagram and Pearson's coefficient of correlation). 60

