

**2017**

**ZOOLOGY**

*( Non-Chordate )*

**[ Honours ]**

**( CBCS )**

**[ First Semester ]**

**PAPER – C1T**

*Full Marks : 40*

*Time : 2 hours*

*The figures in the right-hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

*Illustrate the answers wherever necessary*

1. Answer *five* questions from the following :  $2 \times 5$ 
  - (a) Why animal kingdom is divided into major and minor phyla ?
  - (b) What is synonymy ?

- (c) Mention the class of protozoa which includes shelled protozoa.
  - (d) Highlight the characteristics of nuclei found in Paramecium.
  - (e) What is principle of priority ?
  - (f) What is barrier reef ?
  - (g) What is sibling species ? Give example.
  - (h) What is benthos ? Give example.
2. Answer *four* questions from the following :    5 × 4
- (a) Explain the mechanism of coral reef formation.
  - (b) Describe the life cycle stages of *Fasciola hepatica* with diagram.
  - (c) Write a note on locomotion in *Amoeba*.
  - (d) Highlight the significance of the process of metagenesis in *Obelia* sp.
  - (e) Discuss the differences between Synonymy and Homonymy.

(f) What are the major points to be considered in codes of Zoological Nomenclature ?

3. Answer *one* question from the following : 10 × 1

(a) Define polymorphism. Discuss this phenomenon found in Siphonophora. Add a note on its significance. 2 + 6 + 2

(b) (i) Draw and describe the syconoid canal system and show the course of water current with the help of flow chart.

(ii) State the significance of cryptomerozoite in the life cycle of *Plasmodium*.

6+4