

SU/1700H/CC-1/23

**B.Sc. 1st Semester (Honours) Examination, 2022 (CBCS)**

**Subject : Zoology**

**Course : CC-I**

**Time: 2 Hours**

**Full Marks: 40**

*The figures in the margin indicate full marks.  
Candidates are required to give their answers in their  
own words as far as practicable.*

1. Answer *any five* from the following: 2×5=10
- (a) What is 'Schizocoelic Coelom'? Give example.
  - (b) Define metamerism and give example.
  - (c) Write down the function of Stigma of *Euglena* Sp.
  - (d) State the differences between digenea and monogenea.
  - (e) Draw and label a choanocyte.
  - (f) State the differences between taxonomy and systematics.
  - (g) State the evolutionary significance of bilateral symmetry in animals.
  - (h) Write down the location of 'Botryoidal tissue' and 'colloblast'.
2. Answer *any two* from the following: 5×2=10
- (a) What is principle of priority? Write down the five kingdom concept of classification (Whittaker).
  - (b) Draw and label the longitudinal sectional view of *Sycon* body wall.
  - (c) "*Amoeba*, *Paramoecium* and *Monocystis* are included in different phyla but in same subphylum."— Explain.
  - (d) How does 'metagenesis' differ from 'Alternation of generation'? Briefly describe the factors involved in coral reef formation. 2+3
3. Answer *any two* of the following: 10×2=20
- (a) Describe with a labelled diagram of a mature proglottid of *Taenia* showing reproductive organs. Write briefly on 'Cysticercosis Bovis'. 6+4
  - (b) Name the phylum that represented 'Division of Labour' in course of evolution. Classify the said phylum upto orders with suitable examples. 1+9
  - (c) Describe the events of micronuclear changes during conjugation in *Paramoecium*. How does endo-mixis differ from hemi-mixis? 8+2
  - (d) Describe the microfilarial periodicity in the life history of *Wuchereria bancrofti*. Elaborate different factors influencing the periodicity. 7+3