

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