

SU/ZOO/CC-1/21

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:

- (a) What is 'Schizocoelic Coelom'? Give example. $2 \times 5 = 10$
(b) Define metamericism and give example.
(c) Write down the function of Stigma of *Euglena Sp.*
(d) State the differences between digenae 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:

$5 \times 2 = 10$

- (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:

$10 \times 2 = 20$

- (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. $7+3$