

U.G. 1st Semester Examination - 2023**ZOOLOGY****[HONOURS]****Course Code : ZOOL-H-CC-T-01****[Old CBCS Syllabus]****Full Marks : 40****Time : 2½ 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.*

1. Answer any five questions: 2×5=10
- a) How many labia found in *Ascaris*? Mention their name.
 - b) Distinguish *hydrorhiza* and *hydrocaulus*.
 - c) Draw a schematic diagram of water flow in syconoid canal system.
 - d) Draw a suitable diagram of corallite.
 - e) Distinguish *monogenea* and *digenea*.
 - f) Explain the term 'photobleaching' in coral.
 - g) What is *colloblast*?
 - h) What is *Schuffner's dots*?

[Turn over]

2. Answer any two questions: $5 \times 2 = 10$

a) Describe the structural variations of dactylozooids in cnidaria with suitable diagram.

5

b) Justify the systematic position of the following: $2\frac{1}{2} \times 2 = 5$

i) *Schistosoma* sp.

ii) *Wuchereria* sp.

c) Describe with the help of suitable diagram the locomotory organ of *Euglena*. 5

d) How does Taxonomy differ from Systematics and Classification? 5

3. Answer any two questions: $10 \times 2 = 20$

a) i) Discuss the different types of body symmetry in metazoa with suitable example. 5

ii) Based on which the classification of porifera is made? Write down the characteristic features of any two classes of porifera with suitable example.

1+4=5

b) What is Binominal nomenclature? Write down the international rules for Binominal nomenclature. Enumerate the law of priority.

$2+3+5=10$

c) Describe the structure of flagella of *Euglena* with suitable diagram. Give an account of locomotion of *Euglena*. $5+5=10$

d) Write down the systematic position of the following and justify your answer mentioning at least two characters of each taxon: i) *Amoeba* (up to Phylum), ii) *Sycon* (up to Class), iii) *Obelia* (up to Class) and iv) *Wuchereria bancrofti* (up to Class)