

122/Zool

UG/1st Sem/ZOOL-H-CC-T-01/22

U.G. 1st Semester Examination - 2022

ZOOLOGY

[HONOURS]

Course Code : ZOOL-H-CC-T-01

Full Marks : 40

Time : 2½ Hours

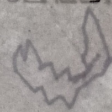
The figures in the right-hand margin indicate marks.

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

1. Answer any **five** questions: 2×5=10

- a) ✓ What do you mean by alpha taxonomy?
- b) What are the differences between metazoa and parazoa?
- c) What is 'Mesozooids of Hickson'?
- d) ✓ Draw a suitable diagram of corallite.
- e) ✓ Distinguish monogenea and digenea.
- f) ✓ Explain the term 'photobleaching' in coral.
- g) What is colloblast?

[Turn over]



2. Answer any two questions:

$$5 \times 2 = 10$$

- a) Give a schematic diagram of water current in Leuconoid canal system. Write a note on aphodal and diplodal type of canal system.

$$2 + 3 = 5$$

- b) Discuss the theories regarding the origin of polymorphisms in cnidaria.

5

- c) Justify the systematic position of the following:

$$2 \frac{1}{2} \times 2 = 5$$

i) *Schistosoma* sp.

ii) *Wuchereria* sp.

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

5

3. Answer any two questions:

$$10 \times 2 = 20$$

- a) State two characteristic features of anthozoa. Name a solitary and a colonial coral. Discuss the three primary types of coral reef.

$$2 + 2 + 6 = 10$$

- b) Describe the life cycle of *Fasciola hepatica*. Enumerate the parasitic adaptive features of

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

d) 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.

$1+4=5$
