



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

B.Sc. Honours Examination 2021

(CBCS)

1st Semester

ZOOLOGY

PAPER—C1T & C1P

NON CHORDATES - I

Full Marks : 60

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

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

THEORY : C1T

Group - A

Answer any *three* questions.

3×12

1. What is spicule? Describe different types of spicules found in Porifera. Mention the significance of spicules. How spicules are formed?

1+5+2+4

2. Define conjugation. Describe the process of conjugation in *Paramecium*.
Mention the significance of conjugation in *Paramecium*. 2+7+3
3. Classify phylum Cnidaria up to classes with characters and examples.
Describe the lifecycle of *Fasciola hepatica*. 6+6
4. What is classification? Add a note on six kingdom concept of classification.
What do you mean about alpha, beta and gamma taxonomy? 2+4+6
5. What do you mean by 'Law of Priority'? Describe the general characters
of phylum Ctenophora. Add a note on metagenesis in *Obelia*. 3+4+5
6. What is canal system? Describe different types of canal system found in
sponges. Mention the significance of this system. 2+7+3

Group – B

Answer any *two* questions. 2×2

7. Distinguish between phasmida and aphasmda.
8. What do you mean about Linean hierarchy?
9. Define taxon and phenon.
10. State the functions of pseudopodia.

PRACTICAL : C1P

Answer any *one* question. 1×15

1. Write down the characteristics of each specimen and mention the
systematic position of the same. 5×3
 - a) *Sycon*
 - b) *Obelia*

- c) *Physalia*
- d) *Paramoecium*
- e) *Euglena*.

2. Draw and label the following specimens and mention their identifying characters : 3×5

- a) *Paramoecium*
- b) *Fasciola*
- c) *Physalia*.

3. Write down the characteristics of phylum, class and genus of following specimens : 3×5

- a) *Sycon*
- b) *Fungia*
- c) *Fasciola*.

Answer any *one* question. 1×5

4. Write down the identifying characters and significance of adult *Fasciola hepatica*.

5. State the identifying characters of the trophozoite of *Entamoeba*.

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