



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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