

**B.Sc. 1st Semester (Honours) Examination-2022-23**

**ZOOLOGY**

**Course ID : 12611 Course Code : SH/ZOO/101/C-1**

**Course Title : Non-chordates I (New)**

*Time : 1 Hour 15 Minutes*

*Full Marks : 25*

*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.*

**Unit-I**

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

- (a) Why Obelia colony is called as “Trimorphic colony”?
- (b) What is “Loeffler’s Syndrome”?
- (c) Differentiate between Monogenea and Digenea.
- (d) What is hectocotylized arm?

- (e) What is Schuffner's dot?
- (f) What do you mean by Radial Symmetry?
- (g) Write the function of kinetochore.
- (h) What is meant by mealy pork?

### Unit-II

2. Answer **any two** questions : 5×2=10

- (a) Distinguish between synonym and homonym. Explain types of homonyms with examples. 2+3
- (b) Explain the term 'effective stroke', 'recovery stroke' and 'metachronal rhythm' in relation to movement of *Paramecium* with suitable diagram. 1+1+3
- (c) Write a note on polymorphism in *Obelia*. 5
- (d) Write short note on :  $2\frac{1}{2}+2$

- (i) Functions of coral reefs.
- (ii) Conservation of coral reef.

### Unit-III

3. Answer **any one** question : 10×1=10

- (a) Classify Phylum Porifera upto classes according to Hyman with characteristics features and example of each class.
- (b) Write short notes on : (any two) 5+5
- (i) Atoll.
- (ii) Syconoid canal System.
- (iii) Conjugation in *Paramecium*.
- (iv) Types of spicules.