

B.Sc. Semester-II Examination, 2022-23**ZOOLOGY [Honours]**

Course ID : 22611 Course Code : SH/ZOO/201/C-3

Course Title : Non-chordates II

Time : 1 Hour 15 Minutes Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***UNIT-I**1. Answer any **five** of the following questions:

1×5=5

- Define Metamerism.
- What do you mean by Cephalopoda?
- What you mean by Eusociality?
- What is Pseudocoelom?
- Why hemichordates are now considered as invertebrates?
- In which Phylum all the species are exclusively marine?
- What is Osphradium?
- What is Tiedemann's body?

*[Turn Over]***UNIT-II**2. Answer any **two** of the following questions: 5×2=10

- Draw and describe the structure of a septal nephridia. Why it is known as enteronephric nephridia? (2+2)+1=5
- Write down the changes that occur due to torsion in gastropods and the advantages of these changes. 4+1=5
- Write the characteristic features of two larval forms of Echinodermata with suitable diagram. $(2\frac{1}{2}+2\frac{1}{2})=5$
- Describe the general characteristics of Onychophora giving one example. Why Onychophora is said to be connecting link between Annelida and Arthropoda? 4+1=5

UNIT-III3. Answer any **one** of the following questions:

10×1=10

- Classify Phylum Mollusca up to Class with characteristic features and example. 2+8=10
- Describe the structure of an ommatidium of Prawn with suitable labelled diagram (longitudinal section). Briefly describe the mechanism of formation of a superposition image by a compound eye. (5+2)+3=10