

B.Sc. 2nd Semester (Honours) Examination, 2021

Subject: ZOOLOGY

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

Course Title: Non-chordates II

Full Marks: 25

Time: 1 Hour 15 Min

UNIT I

1. Answer any five of the following questions: (1×5=5)

- a) In which Phylum all the species are exclusively marine?
- b) Write the scientific name of one parasitic Annelida and mention its class.
- c) Give an example of Mollusca where we can find the Internal shell.
- d) Name the grasping organ present in the buccal cavity of *Pila* sp.
- e) What is metamerism?
- f) Name the endocrine gland from which Juvenile hormone is secreted in Lepidopteran insect.
- g) Mention the scientific name and Phylum of Velvet worm.
- h) Why hemichordates are considered as invertebrates?

UNIT II

2. Answer any two of the following questions: (5×2=10)

- a) Briefly comment on evolutionary significance of *Peripatus*. 5
- b) Define Torsion? How does Torsion modify the nervous system of *Pila* sp, describe with suitable diagram? (1+2+2=5)

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c) What is Eusociality? Write some important characteristic features of true social insects.

Write the characteristic features of reproductive caste of a termite colony. (1+2+2=5)

d) Name four larval forms of Phylum Echinodermata. Write the Chordate affinities of Echinodermata. (2+3=5)

UNIT III

3. Answer any one of the following questions: (10×1=10)

a) Classify Phylum Mollusca upto Class with characteristic features and example. 10

b) What is "Mosaic vision"? Briefly describe the structure of Ommatidium with suitable diagram. Differentiate between apposition and superposition image with suitable diagram.

[1+5 (3+2)+4 (2+2)=10]

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Signature of Moderators _____

Date _____