

U.G. 2nd Semester Examination - 2022**ZOOLOGY****[HONOURS]****Course Code : BZOOCCHC 201****Course Title : Non Chordates-II-Coelomates**

Full Marks : 30

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **ten** questions: 1×10=10
- What is Branchiosleigita?
 - Why stone canal is so called?
 - Define coelom.
 - What do you mean by eusocial insects?
 - Name the locomotory organ of *Nereis* sp.
 - What is the actual anatomical difference between worker and soldier on termites?
 - Write the chief difference between Protonephrdia and Metanephridia.

- Name the hormone secreted from corpora allata.
- What is hectocotylus arm?
- Give scientific name of an animal where byssus filaments are found?
- Name the larval form of *Balanoglossus* sp.
- Compare between Polychaeta and oligochaeta.
- Mention the function of nuchal lobes.
- What is pedicellaria?
- What is epitoke and atoke?

2. Answer any **five** questions : 2×5=10
- What is enterocoelous coelom? Give an example.
 - Mention the function of coelom.
 - Write the feeding habit of Onychophora.
 - Why respiration of *Pila* sp. is called dual respiration?
 - Write the difference between Apposition and Superposition vision in Arthropoda.
 - Write the significance of metamerism.

- g) What is the importance of trophallaxis in termites?
- h) Mention the function of hepatopancreas of *Pila* sp.

3. Answer any **two** questions: $5 \times 2 = 10$

- a) What do you mean by Holometabolus development? Describe the role of different hormones in different steps of this type of development. $2 + 3 = 5$
- b) Hemichordates are 'forerunner' of chordates— Justify. 5
- c) Draw and describe two larval forms of Echinoderms. Mention significance of Echinoderm larva. $1 + 1 + 1 + 1 + 1 = 5$
