

U.G. 2nd Semester Examination - 2021**ZOOLOGY****[HONOURS]****Course Code : BZOCCCHC 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: $1 \times 10 = 10$
- Define schizocoel.
 - Suggest an unique feature of the arthropoda cuticle.
 - Name the locomotory organ of star fish.
 - Where do you find ink gland?
 - Give the names of larval forms of *Asterias* sp.
 - Give an example of holometabolan insect.
 - What type of metamerism is found in Annelida?

- What do you mean by diapause?
 - Why the ctenidium of *Pila* is monopectinate type?
 - What is stone canal?
 - What do you mean by caterpillar?
 - Define Ommatidium.
 - What is Pedicellariae?
 - Write one significance of Coelon.
 - Why are termites called social insects?
2. Answer any **five** questions: $2 \times 5 = 10$
- What is polyphenism? Where do you find it?
 - Comment on Clitellum.
 - What is Chiastoneury? In which group it is found?
 - Differentiate apposition and superposition image formation.
 - Distinguish between protostomes and deuterostomes.
 - What is external metamerism?
 - State the systematic position (upto Class) of *Cucumaria* sp.
 - Comment on evolutionary significance of *Onychophora*.

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

a) Describe the structure and function of tube foot with proper illustrations. 5

b) Draw and describe the nervous system of a typical gastropod. 5

c) What do you mean by metamorphosis? Explain the neuroendocrine regulation of metamorphosis in Lepidopteran insects.

$1\frac{1}{2} + 3\frac{1}{2}$
