

Undergraduate Semester -I Examinations, 2021.

Subject: ZOOLOGY

Course ID: 12611

Course Code: SH/ZOOH/101/C-1

Course Title: Non-chordates-I

Full Marks: 25

Time: 1 Hr 15 Min.

The figures in the margin indicate full marks

Answer all the questions.

UNIT I

1. Answer *any five* of the following questions: (5x1=5)

- a. Define the principle of priority.
- b. What are choanocytes & ameobocytes?
- c. What is the name of the larva of *Obelia*?
- d. Differentiate between syntype and lectotype.
- e. What are rhagons?
- f. What do you meant by mesoglea?
- g. What do you mean by Blepharoplast?
- h. What is cysticercus larva?

UNIT II

2. Answer *any two* of the following questions: (2x5=10)

- a. "The microfilariae of *Wuchereria bancrofti* occur in the peripheral circulation at night"-decode it with suitable reasons. (5)
- b. Classify Phylum Nematoda up to classes with suitable features and example (according to Ruppert and Barnes, 1994). (5)
- c. What is the reason behind the gradual complexity of the canal system? Back up your answers with proper logic. (5)

d. What is a monophyletic clade? How it is different from paraphyletic clade? What is meant by *nomen oblitum*? (2+2+1)

UNIT III

3. Answer any one of the following questions: (1x10=10)

a. Briefly describe the Ross cycle of *P.vivax*. Briefly discuss on its prophylaxis. (6+4)

b. What is coelom? How schizocoelomy is different from enterocoelomy? What is the benefit of having a coelom? What are metameres? Briefly discuss its evolutionary significance.

(2+4+1+1+2)

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