



सत्यं विद्यमानम्

## WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 1st Semester Examination, 2018

## ZOOACOR01T-ZOOLOGY (CC1)

## NON-CHORDATES I



Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks**Candidates should answer in their own words and adhere to the word limit as practicable***Group-A**

1. Answer any *eight* questions from the following: 2×8 = 16
- What is schizont?
  - Give the similarities between polyp and medusa.
  - What is nematocyst? Write down the generic name of one marine sponge. 1+1
  - Name the definitive and intermediate hosts of *Wuchereria bancrofti*. 1+1
  - What is nectocalyx?
  - What is metagenesis?
  - What are the functions of Apopyle and Prosopyle in sponge?
  - Name the larval stages of *Taenia solium*.
  - Define Coelom. Give example of Pseudocoelomate animal.
  - Write two characters of ctenophora.

**Group-B**

2. Answer any *three* questions from the following: 3×3 = 9
- Write down adaptive features of *Fasciola hepatica*. 3
  - State the significance of polymorphism in cnidaria. 3
  - Give an account of nucleans during conjugation process in *Paramecium*. 3
  - Define coral reef. What is coral-bleaching? 1.5+1.5
  - State the significance of spicules in Porifera. 3

**Group-C**

3. Answer any *three* questions from the following: 5×3 = 15
- (a) Classify phylum platyhelminthes up to classes. 5
  - (b) State four important characteristics of syconoid canal system. Add a diagram of the same. 2+3
  - (c) Briefly narrate the parasitic adaptations in helminthes. 5
  - (d) Name the phylum and class of the following animals: 5
    - (i) Leucosolenia
    - (ii) Aurelia
    - (iii) Planaria
    - (iv) Ancylostoma
    - (v) Sea-anemones.
  - (e) State the mode of gametocyte transmission from vector to host in cerebral malaria. 5

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