



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
- (a) What is schizont?
 - (b) Give the similarities between polyp and medusa.
 - (c) What is nematocyst? Write down the generic name of one marine sponge. 1+1
 - (d) Name the definitive and intermediate hosts of *Wuchereria bancrofti*. 1+1
 - (e) What is nectocalyx?
 - (f) What is metagenesis?
 - (g) What are the functions of Apopyle and Prosopyle in sponge?
 - (h) Name the larval stages of *Taenia solium*.
 - (i) Define Coelom. Give example of Pseudocoelomate animal.
 - (j) Write two characters of ctenophora.

Group-B

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