



WEST BENGAL STATE UNIVERSITY  
B.Sc. Honours 1st Semester Examination, 2020, held in 2021

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.*

1. Answer any **eight** questions from the following: 2×8 = 16
- (a) Define spicule.
  - (b) Name various larval stages of *Fasciola hepatica*.
  - (c) State functions of gonozooids.
  - (d) Define signet-ring stage.
  - (e) What is the infective stage of *Entamoeba histolytica*?
  - (f) State two characteristic features of Nematelminthes.
  - (g) What is rostellum?
  - (h) Write down the generic name of two freshwater sponges.
  - (i) Give two examples (scientific name) of Platyhelminthes.
  - (j) Name definitive hosts of *Ascaris lumbricoides* and *Taenia solium*.
  - (k) Distinguish between polyp and medusa.
  - (l) Write the functions of macronucleus of *Paramoecium* sp.
2. Answer any **three** questions from the following: 3×3 = 9
- (a) State the significance of conjugation in *Paramoecium*.
  - (b) Write down the pathogenicity of *Plasmodium vivax*.
  - (c) State characteristic features of phylum Ctenophora.
  - (d) Mention significance of coral reefs.
  - (e) Briefly narrate symptoms and treatment of taeniasis.
3. Answer any **three** questions from the following: 5×3 = 15
- (a) Classify phylum Cnidaria up to classes with proper example. 5
  - (b) Write a short note on Rhagon type of canal system in Sponges with a proper diagram. 2+3

- (c) Name the phylum and class of the following animals: 1×5 = 5
- (i) *Beroe*
  - (ii) Liver fluke
  - (iii) Sea fan
  - (iv) Portuguese Man of War
  - (v) *Fungia*.
- (d) Write short notes on:  $2\frac{1}{2} \times 2 = 5$
- (i) Atoll
  - (ii) Pneumatophore.
- (e) Describe briefly morphological adaptations found in *Taenia* sp. and *Ascaris* sp.  $2\frac{1}{2} \times 2 = 5$

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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