



**WEST BENGAL STATE UNIVERSITY**

B.Sc. Honours 1st Semester Examination, 2019

**ZOOACOR01T-ZOOLOGY (CC1)**

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) Differentiate between cytostome and cytopharynx.
  - (b) What is Ookinete?
  - (c) Name the different larval stages of *Fasciola* sp.
  - (d) What is dactylozooid?
  - (e) Name one free living and one parasitic Platyhelminthes.
  - (f) Write the scientific name of 'Portuguese Man of War'. Why is it named so? 1+1
  - (g) Mention two differences between Ostium and Osculum.
  - (h) What is coenosarc?
  - (i) State two significances of micro nucleus during conjugation in *Paramecium* sp.
  - (j) How many types of locomotory organs are found in Protozoa? Name them. 1+1
  - (k) Define proglottid.
  - (l) Distinguish between polyp and medusa.
  - (m) What is radial and biradial symmetry?

**GROUP-B**

2. Answer any **three** questions from the following: 3×3 = 9
- (a) Draw and label the ultrastructure of cilia. 2+1
  - (b) What are bracts? State two significances of polymorphism in Cnidaria. 1+2
  - (c) Write about the periodicity of microfilariae. 3
  - (d) What are the different factors responsible for the formation of coral reefs? 3

- (e) State the significances of process of conjugation in *Paramoecium* sp. 3
- (f) State the salient features of Rotifera. 3
- (g) What is amoeboid movement? Differentiate between cilia and flagella. 1+2

### GROUP-C

3. Answer any **three** questions from the following: 5×3 = 15
- (a) Classify Phylum Porifera up to classes with suitable examples. 5
- (b) Name the phylum and class of the following animals: 5
- (i) *Spongilla* sp.
- (ii) Sea-Fan
- (iii) Liver fluke
- (iv) *Physalia* sp.
- (v) *Euplectella* sp.
- (c) To which phylum does the following structures belong and mention one function of each: 5
- (i) Comb plate
- (ii) Corona
- (iii) Contractile vacuole
- (iv) Gastrovascular cavity
- (v) Scolex.
- (d) What is hookworm? Describe the life cycle of *Ascaris lumbricoides* with proper diagram. 1+4
- (e) State the structural differences between the promastigote and amastigote stages of *Leishmania donovani* with a proper diagram. Write the pathogenicity of *Entamoeba histolytica*. 3+2

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