



WEST BENGAL STATE UNIVERSITY  
B.Sc. Honours 1st Semester Examination, 2022-23

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) What is rostellum? 1+1
  - (b) What are amphids and phasmids? 1+1
  - (c) What is Giardiasis?
  - (d) Differentiate between cytostome and cytophyge.
  - (e) State two significance of micronucleus during conjugation in *Paramecium* sp.
  - (f) Mention the symptoms of elephantiasis.
  - (g) Compare between endomixis and parthenogenesis in Protozoa.
  - (h) What is Coralite?
  - (i) Write down two characteristic features of class Anthozoa.
  - (j) What is a vector? Write the scientific name of the vector of Kala-azar. 1+1
  - (k) State the scientific name of a fresh water sponge. In which class does it belong? 1+1

GROUP-B

2. Answer any **three** questions from the following: 3×3 = 9
- (a) Briefly describe the role of microfilaments in amoeboid movement.
  - (b) What are the different factors responsible for the formation of coral reef?
  - (c) Write down the pathogenicity of *Plasmodium vivax*.
  - (d) Enumerate the parasitic adaptations of *Ascaris lumbricoides*.
  - (e) Write a short note on Cercaria larva.

GROUP-C

3. Answer any **three** questions from the following: 5×3 = 15
- (a) Classify phylum Porifera up to classes with suitable example.

(b) Name the phylum and class of the following animals:

- (i) Glass rope sponge
- (ii) Sea fan
- (iii) *Taenia* sp
- (iv) Venus Flower Basket
- (v) Horn Coral.

(c) To which phylum does the following structures belong and mention one function of each:  $(\frac{1}{2} + \frac{1}{2}) \times 5 = 5$

- (i) Scolex
- (ii) Gastrovascular cavity
- (iii) Penial Setae
- (iv) Rhabdites
- (v) Porocytes.

(d) Explain the life cycle of *Leishmania donovani* with the help of a labelled diagram. 3+2

(e) Write short notes on:

$2\frac{1}{2} \times 2 = 5$

- (i) Fringing Reef
- (ii) Salient features of Rotifera.

—x—