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?

(b) What are amphids and phasmids? 1+1

(c) What is Giardiasis?

(d) Differentiate between cytostome and cytopyge.

(e) State two significance of micronucleus during conjugation in *Paramoecium* 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 pathogenecity 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.

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