

B.Sc. 2nd Semester (Latest)

Examination, May-2023

BIO-TECHNOLOGY

Paper - BT-204

Animal Diversity & Economic Zoology

Time allowed : 3 hours]

[Maximum marks : 40

Note : Question no. 1 is compulsory. Attempt four questions selecting one question from each unit. Overall candidates are required to attempt five questions including compulsory question.

1. Write note on the following:

(a) Coelom

8×1=8

(b) Digenetic life cycle

(c) Osculum

(d) Metamorphosis

(e) Sericulture

(f) Radial Symmetry

(g) Madreporite

(h) Brachiolaria larva

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## Unit-I

2. Describe Life cycle of Plasmodium diagrammatically. 8
3. Give a detail account of types of canal system in Sponges. 8

## Unit-II

4. Write general characters and classification of phylum Coelentrata upto Orders. 8
5. Write short notes on :  $2 \times 4 = 8$
- (a) Types of stinging cells
  - (b) Parasitic Adaptations

## Unit-III

6. Describe general features and life history of Earthworm. 8
7. Write short notes on :  $2 \times 4 = 8$
- (a) Metamorphosis in insects
  - (b) Apiculture

## Unit-IV

8. Write short notes on :  $2 \times 4 = 8$
- (a) Torsion in gastropods
  - (b) Affinities of Balanoglossus with chordates
9. Describe in detail life history of star fish (Asterias). 8