

M.Sc. 1st Semester Examination, 2024

ZOOLOGY

(Non-Chordate Biology)

PAPER — ZOOL-101

Full Marks : 25

Time : 1 hour

Answer all questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP — A

1. Answer any two of the following questions :

2×2

(a) State two functional roles of soil nematodes.

(Turn Over)

(2)

- (b) Distinguish between Ectoprocta and Entoprocta.
- (c) What do you mean by lorica ?
- (d) Mention the salient features of Ecdysozoa.

GROUP – B

2. Answer any *two* of the following questions :

4 × 2

- (a) Comment on the role of mictic and amictic females in the life cycle of rotifera.
- (b) The protoplasm can be found even outside cell membrane—justify the statement using a protist as an example.
- (c) Draw a labelled diagram of structure of a trochophore larva. What do you mean by monotroch ?

3 + 1

(3)

- (d) Discuss briefly the structure of the test of foraminifera with diagram.

GROUP – C

3. Answer any *one* of the following questions :

8 × 1

- (a) Using suitable diagram elaborate the features of the intestinal epithelial cell of any free living nematode. Add a note on bacteria-nematode symbiosis.

- (b) Provide an overview of the four different larval stages of echinoderms with suitable illustrations.

4 + 4

[Internal Assessment – 5 Marks]

