

Zoology [Major]
[NEP]

B.Sc. First Semester End Examination-2024

(Regular & Supplementary Paper)

PAPER-MJ101T

[Non-Chordates]

Full Marks: 40

Time: 02 Hrs.

The figures in the right hand margin indicate marks.

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

Illustrate the answers wherever necessary.

Group A

1) Answer any FIVE questions of the following: 5x2= 10

- a) Write two diagnostic features of Hemichordata.
- b) Mention the Scientific name and systematic position of Liver fluke worm.
- c) Define Systematic and Taxonomy.
- d) What is 'type' in taxonomy?
- e) Who proposed the six kingdom classification and in what respect?
- f) Write the locomotory structure of Euglena, Paramecium, Entamoeba and starfish.

- g) What is stomochord?
- h) Define metamorphosis.

Group B

2. Answer any FOUR questions of the following: 4x5 = 20

- a) Describe the life cycle of *Entamoeba histolytica*.
- b) What is polymorphism? Describe structure of a Medusa.
- c) Describe the process of conjugation in Paramoecium.
- d) Write morphological characters in respect to evolution in Onychophora.
- e) Describe the larval structure of Echinodermata and add a note on its affinity with chordates.
- f) Discuss the social life of termites.

Group C

3. Answer any ONE question of the following: 1x10 = 10

- a) What is torsion? Discuss torsion in gastropods with suitable figure.
- b) Write note on
 - i) Metamorphosis in Insects
 - ii) Excretion in Annelida.
 - iii) Adaptation in Parasitic helminthes
 - iv) Pathogenecity of Plasmodium. 2½x4