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1A (Sem-1/ITEP) ZLG01 MJ

2025

ZOOLOGY

(Major)

Paper : ZLG0100104-N

(Diversity of Non-Chordates)

Full Marks : 45

Time : 2 hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct answer : $1 \times 5 = 5$
- (a) Animals without a body cavity are called :
- (i) Coelomates
 - (ii) Pseudocoelomates
 - (iii) Acoelomates
 - (iv) Metameres

(b) Which type of symmetry is seen in Porifera ?

- (i) Bilateral
- (ii) Radial
- (iii) Pentamerous
- (iv) Asymmetrical

(c) Onychophorans are commonly known as :

- (i) Earthworms
- (ii) Velvet worms
- (iii) Flatworms
- (iv) Roundworms

(d) Excretion in Annelida is carried out by :

- (i) Flame cells
- (ii) Malpighian tubules
- (iii) Green glands
- (iv) Nephridia

(e) Which organ is brought anteriorly due to torsion ?

- (i) Heart
- (ii) Kidney
- (iii) Mantle cavity
- (iv) Gonad

2. Write short notes on : **(any five)** $2 \times 5 = 10$

- (a) Coral reefs
- (b) Ciliary movement
- (c) Economic importance of Protista
- (d) Spongocoel
- (e) Polyp
- (f) Pharyngeal nephridia
- (g) Pearl Formation
- (h) Compound Eye
- (i) Disadvantages of Torsion
- (j) Madreporite

3. Answer the following questions in brief :
(any four) $5 \times 4 = 20$

- (a) Explain the types of body cavity with examples.
- (b) Write the classification of Protists with examples.
- (c) Describe the structure of sycon (scypha) with a neat diagram.
- (d) Explain Parasitic adaptations in Platyhelminthes.

- (e) Explain septal Nephridia with their functions.
- (f) Describe the tracheal system of respiration in insects.
- (g) Write a short note on tube feet and their functions.
- (h) Explain why Peripatus is considered a connecting link between Annelida and Arthropoda.

4. Answer elaborately : **(any one)** 10

- (a) Describe the locomotory organs and modes of reproduction in Phylum Protists.
 - (b) Compare coelom and metamerism in different animal phyla using a suitable table.
 - (c) Describe different types of nephridia in annelids with neat labelled diagrams and functions.
 - (d) Explain the water vascular system of Echinodermata with labelled diagrams.
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