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1A (Sem-1/ITEP) ZLG01 MN

2025

ZOOLOGY

(Minor)

Paper : ZLG0100104-N

(Diversity of Non-Chordates)

Full Marks : 45

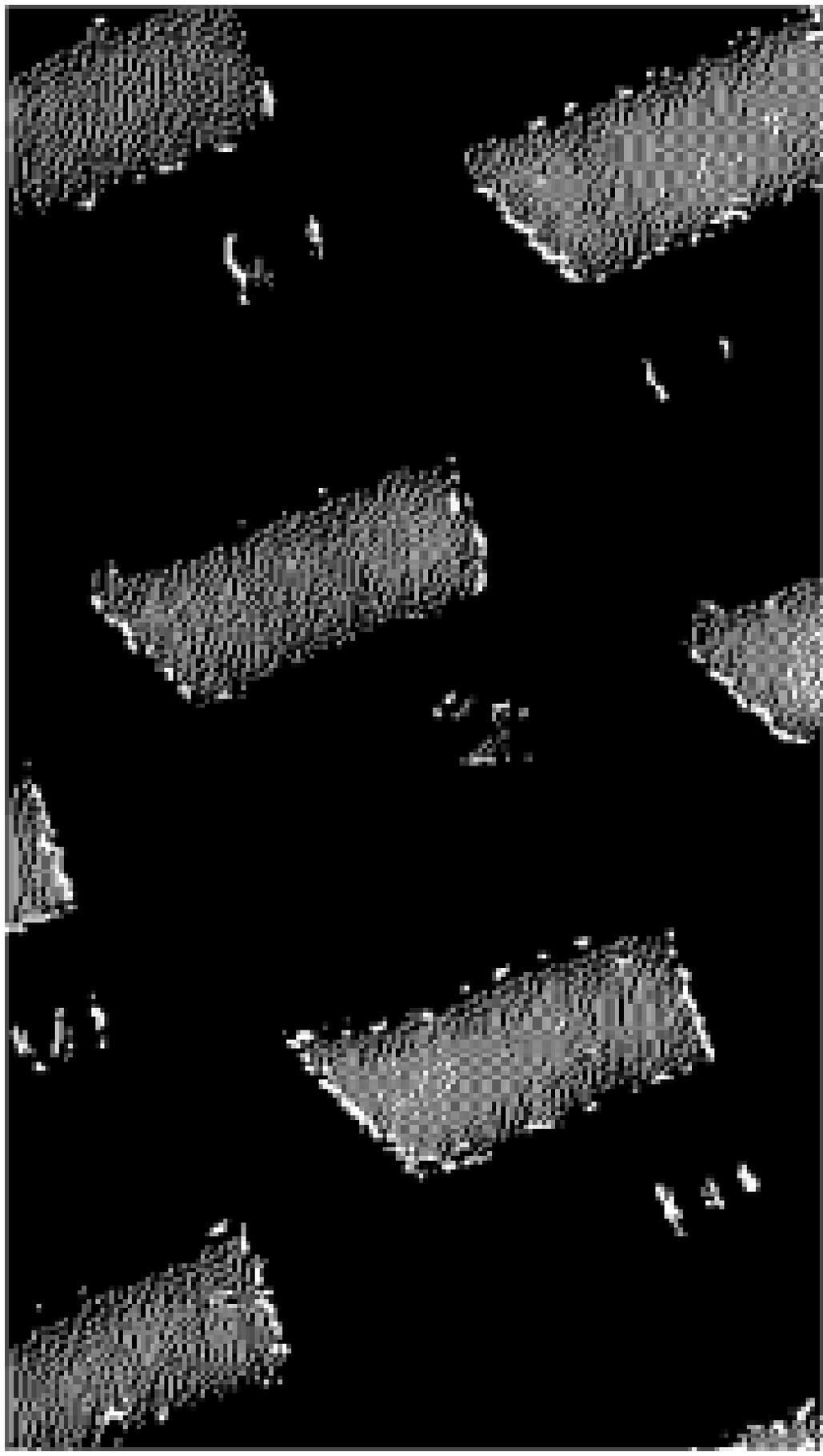
Time : 2 hours

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

1. Choose the correct answer : $1 \times 5 = 5$

(a) Feeding in sponges takes place through

- (i) Choanocytes
- (ii) Nurse Cells
- (iii) Ostia
- (iv) Osculum



(b) Which of the following structures helps in the excretion of flatworms?

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

(c) Taenia takes food by

- (i) Skin
- (ii) Sucker
- (iii) Mouth
- (iv) All of the above

(d) Peripatus (Walking worm) is a connecting link between

- (i) Annelida and Mollusca
- (ii) Annelida and Arthropoda
- (iii) Mollusca and Arthropoda
- (iv) Mollusca and Echinodermata

(e) Tube feet are found in

- (i) Star fish
- (ii) Cuttle fish
- (iii) Jelly fish
- (iv) Cray fish

2.. Write short notes on : **(any five)** 2×5=10

- (a) Acoelomate
- (b) Binary Fission
- (c) Fringing reefs
- (d) Dimorphism
- (e) Affinities of Peripatus
- (f) Flagellar movement
- (g) Torsion
- (h) Septal Nephridia
- (i) Spongin fibres
- (j) Stone canal

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

- (a) Differentiate between Polyp and Medusa.
- (b) Define a coelom and its types with suitable examples.
- (c) Describe the different modes of reproduction in Kingdom Protista with examples.



- (d) Describe the structure and function of the compound eyes in Arthropods.
- (e) Write the distinguishing characteristics of phylum Platyhelminthes.
- (f) Write about the parasitic adaptation of *Wuchereria Bancrofti*.
- (g) Explain how the evolution of coelom and metamerism has contributed to the complexity and efficiency of animal organization.
- (h) What is excretion? Describe the excretion in Annelida.

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

- (a) Explain the canal system in porifera with neat labelled diagrams.
- (b) Write an essay on torsion and detorsion in Mollusca, with neat labelled diagrams.
- (c) Explain Peripatus as a connecting link between Annelida and Arthropods with its evolutionary significance.
- (d) Explain the water vascular system of Echinodermata with labelled diagrams.

