

(6 pages)

Reg. No. : _____

Code No. : 30700 E Sub. Code : FCZO 11/
EMZO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2025.

First Semester

Zoology — Core

INVERTEBRATA

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Paramecium is covered by

- (a) Body Wall (b) Pellicle
(c) Cuticle (d) Exoskeleton

2. Flagellated cells in spongocoel in Poriferans are known as

- (a) Ostia
(b) Mesenchymal Cells
(c) Choanocytes
(d) Osculum

3. Which of the following is a characteristic feature in the phylum Coelenterata?

- (a) Nematocysts
(b) Flame Cells
(c) Hermaphroditism
(d) Polymorphism

4. Which is the organ for excretion in Platyhelminthes?

- (a) Protonephridia
(b) Flame Cells
(c) Green Glands
(d) Malpighian Tubules

5. Ascariasis is caused by

- (a) Hook Worm (b) Pin Worm
(c) Round Worm (d) Flat Worm

6. Which structure is essential for earthworm locomotion?
- (a) Setae (b) Clitellum
(c) Crop (d) Gizzard
7. *Scirpophaga incertulas* is pest of _____.
- (a) sugarcane (b) coconut
(c) rice (d) maize
8. Symmetry of all arthropods
- (a) Unilateral (b) Bilateral
(c) Trilateral (d) Radial
9. Cephalopods are
- (a) Terrestrial (b) Arboreal
(c) Marine (d) Fresh water
10. Tube feet is found in
- (a) Cuttle fish (b) Cray fish
(c) Jelly fish (d) Star fish

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write the types of nutrition in Protozoa with examples.
Or
(b) Write a short account on reproduction in Sponges.
12. (a) Write a short note on polyps with illustration.
Or
(b) Write the characteristic features of Cestoda with an example.
13. (a) Write an account on *Enterobius vermicularis*.
Or
(b) Write a short note on external morphology of Neries with a labelled sketch.
14. (a) Briefly explain the affinities of *Peripatus*.
Or
(b) Write an account on *Chilo infuscatellus*.

15. (a) Explain the nervous system of Pila with a labelled sketch.

Or

- (b) Write a short note on Water vascular system in Starfish.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write a detailed account on conjugation in Paramecium.

Or

- (b) Write an essay on canal system in sponges and its significance.

17. (a) Describe in detail about the polymorphism in Hyozoa.

Or

- (b) Outline the life cycle of *Fasciola hepatica* with illustrated sketch.

18. (a) "Parasitic adaptations" – in Aschelminthes.

Or

- (b) Describe in detail about metamersim in Annelids.

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19. (a) Describe the Cephalic appendages of Prawn with labelled sketch.

Or

- (b) Integrated Post Management – its importance and principles.

20. (a) Torsion in molluscs – explain in detail.

Or

- (b) Write the Larval forms of echinoderms their types and significance in detail.

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