

(6 pages)

Reg. No. :

Code No. : 30510 E Sub. Code: CMZO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

First Semester

Zoology — Core

INVERTEBRATA

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

1. In Paramecium, genetic information is stored in

- (a) all the nuclei present
- (b) mitochondria
- (c) micronucleus
- (d) macronucleus

2. In Paramecium, osmoregulation Occurs through

- (a) body surface (b) pseudopodia
- (c) nucleus (d) contractile vacuole

3. These are not a 'multicellular grade' of organism

- (a) Vertebrates (b) Sponges
- (c) Prokaryotes (d) Coelenterates

4. This is a flagellated larva of Leucosolenia

- (a) Maggot (b) Kedia
- (c) Planula (d) Parenchymula

5. Solenocytes and nephridia are respectively found in [RPMT 2002]

- (a) Platyhelminthes and Annelids
- (b) Annelids and Nematoda
- (c) Cnidaria and Mollusca
- (d) Mollusca and Echinodermata

6. In the Nereis animals, locomotion takes place by crawling with help of _____

- (a) Appendages (b) Wings
- (c) Parapodia (d) Tails

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7. In prawns first three thoracic legs are _____ legs.

- (a) Punching (b) Chelate
(c) Piresing (d) Chewing

8. Which is the male reproductive organ of *P. indicus*?

- (a) Petasma (b) Thelycum
(c) Rostrum (d) Endopodites

9. The body type of echinoderm organisms is _____

- (a) Bilaterally symmetrical
(b) Is not symmetrical
(c) Body is radially symmetrical
(d) Asymmetrical body type

10. What does the term echinoderms mean

- (a) Tube feet (b) Star shaped
(c) Spiny skin (d) Stomach foot

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PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain various types of nutrition in protozoa.

Or

(b) Discuss the mechanism of binary fission in *Paramecium*.

12. (a) Classify platyhelminthes up to class mention the features with example.

Or

(b) Write about the metamerism in annelids.

13. (a) Write about the types of corals.

Or

(b) Write a brief description of sacculina.

14. (a) Write about the affinities of peripatus.

Or

(b) Explain about digestive system of *Pila*.

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[P.T.O.]



15. (a) Explain cephalopods as an advanced molluscs.

Or

- (b) Explain about the digestive system of Starfish.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the methods of reproduction in Paramecium.

Or

- (b) Write about the life cycle of plasmodium.

17. (a) Explain the life history of obelia.

Or

- (b) List out the various features of phylum porifera.

18. (a) Write in detail about the life cycle, pathogenesis and control measures of Ascaris.

Or

- (b) Write an essay on nematode parasites and their adaptations.

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19. (a) Write a detailed account on mouthparts of insects.

Or

- (b) Illustrate the life cycle of peneaus.

20. (a) Write about the digestive system of pila.

Or

- (b) Write an essay on larval forms of Echinodermata.

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