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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

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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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.

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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