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Reg. No. : .....

Code No. : 30379 E Sub. Code : CMZO 11

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

First Semester

Zoology — Core

INVERTEBRATA

(For those who joined in July 2021 and 2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Select the one who is called Father of Taxonomy.  
(a) De vries (b) Lamark  
(c) Darwin (d) Linnaeus
2. Show the slipper animalcule.  
(a) euglena (b) paramecium  
(c) amoeba (d) plasmodium

3. Select the nutritive Zooids of Obelia.  
(a) Polyp (b) Medusa  
(c) Blastocyst (d) Stinging cells
4. Select the organ for Offense and defence in Coelenterata.  
(a) Nematocyst (b) Otolith  
(c) Flame cells (d) Tube feet
5. Select one of the disease caused by Liver fluke.  
(a) syphilis (b) liver rot  
(c) amoebiosis (d) malaria
6. Name the causative agent of the disease ascariasis.  
(a) Euglena  
(b) *Ascaris lumbricoidus*  
(c) *Entamoeba histalytica*  
(d) *Plasmodium vivax*
7. Select the Copulatory organ of Prawn.  
(a) exopodite (b) endopodite  
(c) petasma (d) uropods

8. Choose the Living fossil.  
(a) Limulus (b) Head louse  
(c) Ctenophora (d) Archeopterix
9. Select the functions of Tentacles in Pila.  
(a) Respiration (b) Tactile organ  
(c) Reproduction (d) Circulation
10. Choose the chewing apparatus of star fish.  
(a) Aristotle lantern  
(b) Pecten  
(c) Radula  
(d) Chitin

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Summarize the holozoic nutrition in Protozoa.  
Or  
(b) Explain the different types of Symmetry.

12. (a) Write the special features and significance of Corals.

Or

- (b) Sketch the structure of Obelia and label all the parts.

13. (a) Illustrate the filter feeding in Polychetes.

Or

- (b) Explain the structure of liver fluke with diagram.

14. (a) Write a note on Sacculina.

Or

- (b) Generalize the social life of Insects.

15. (a) Summarize characteristics of Bipinnaria larva.

Or

- (b) Write short note on Pearl culture.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain in detail about the Conjugation in Paramecium.

Or

- (b) Classify the general characteristics of Protozoa.

17. (a) Explain in detail about Polymorphism in Coelenterate.

Or

- (b) Classify the characteristics of Phylum Porifera.

18. (a) Summarizes the characteristics of phylum Annelida.

Or

- (b) Order all the adaptations found in nematode parasites.

19. (a) Order all the characteristics of Phylum Arthropoda.

Or

- (b) Explain the following :

(i) Metanauplius

(ii) Cypris.

20. (a) Write down the characteristics of phylum Echinodermata.

Or

- (b) Compile the Water vascular system of Star fish.