

(6 pages)

Reg. No. : .....

Code No. : 10578 E Sub. Code : CMZO 11

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2024.

First Semester

Zoology – Core

INVERTEBRATA

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

Time : Three hours

Maximum : 75 marks

PART A – (10 × 1 = 10-marks)

Answer ALL questions.

Choose the correct answer :

- Whittaker five kingdom concept is formed on the basis of food gathering such as  
(a) Photosynthesis (b) Absorption  
(c) Ingestion (d) All of these
- Amoeba the protozoan sharing the symmetry of  
(a) Radial (b) Bilateral  
(c) Asymmetry (d) Biradial

- Phylum porifera is classified on the basis of  
(a) locomotory organ (b) spicules  
(c) canal system (d) reproduction
- The number of tentacles present in young Obelia is  
(a) 8 (b) 16  
(c) 32 (d) 64
- In Liver fluke the larva hatched from capsule is  
(a) Redia (b) Miracidium  
(c) Sporocyst (d) Cercaria
- The larval form of Ascaris is  
(a) Trochophore (b) Bipinnaria  
(c) Valiger (d) Rhabditis
- One of the following is living fossil  
(a) Prawn (b) Limulus  
(c) Sacculina (d) Lepas
- In Prawn the capulatory organ, petasma is formed of union of  
(a) Exopodite (b) Protopodite  
(c) Endopodite (d) Mesopodite

9. The respiratory organ of mollusc is  
(a) Trachea (b) Book lungs  
(c) Keber's organ (d) Ctenidia
10. The phylum which comprises exclusive forms of marine animals is  
(a) Annelida (b) Arthropoda  
(c) Mollusca (d) Echinodermata

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Analyse the concept of five kingdom classification of life.  
Or  
(b) Examine the binomial nomenclature and rules pertained to nomenclature.
12. (a) Identify the general features of coelenterates.  
Or  
(b) Summarize the salient features of Ctenophora.

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13. (a) Describe the external features of Liver flukes.  
Or  
(b) Explain the reproductive system in Liver fluke.
14. (a) State the salient features of Arthropoda.  
Or  
(b) List down the characteristics of class insecta give example.
15. (a) Picturize the features of Pila's shell and comment on its structure.  
Or  
(b) With neat labelled sketch explain the structural organization of digestive system in Pila.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)  
Each answer should not exceed 600 words.

16. (a) Trace the life cycle of plasmodium and mention its pathogenesis (in man).  
Or  
(b) Highlight the different types of reproduction take place in paramecium.

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17. (a) Write an essay on types of coral and coral reefs.

Or

(b) Critically analyse the various types of canal system in sponges.

18. (a) Highlight the features of metamerism in Annelids.

Or

(b) Write short notes on :

(i) Filter feeding in polychaetes

(ii) Extra intestinal migration in Ascaris.

19. (a) Discuss the affinities of peripetus.

Or

(b) Comment on the biological significances of

(i) Limulus and

(ii) Sacculina.

20. (a) Cephalopods as an advanced mollusc - Justify.

Or

(b) Deduce the sequential steps operated in pearl culture with suitable sketches.

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