

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 process of conjugation in paramecium.

Or

- (b) Write down the general features of phylum protozoa.

17. (a) Explain the life cycle of obelia with neat sketch.

Or

- (b) Write an essay on coral reefs.

18. (a) Write down the general character of platyhelminthes.

Or

- (b) Explain the life history of Ascaris.

19. (a) Describe the thoracic appendages of penaeus.

Or

- (b) Write an essay on social life in insects.

20. (a) Describe the reproductive system of pila.

Or

- (b) Write an account on larval forms of echinoderms and their significance.

Reg. No. : .....

Code No. : 20555 E

Sub. Code : CMZO 11

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023

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.

Choose the correct answer :

- Father of modern taxonomy is  
(a) John Ray                      (b) Hackel  
(c) Aristotle                      (d) Linnaeus
- Protozoan are classified on the basis of  
(a) Habit                              (b) Locomotor organ  
(c) Reproduction                      (d) All of these



PART B — (5 × 5 = 25 marks)

3. The size and shape of the sponge is determined by  
(a) Chronocytes (b) Pincocytes  
(c) Osculum (d) Spicule
4. The phenomenon of metagenesis is exhibited in  
(a) Aurelia (b) Gorgonia  
(c) Obelia (d) Porpita
5. One of the following is hermaphrodite animal  
(a) Ascaris (b) Liverfluke  
(c) Filaria (d) None of these
6. The excretory organ present in earthworm  
(a) Kidney (b) Nephridia  
(c) Flame cells (d) Malpighian tubule
7. Which is not an arthropod?  
(a) Clam (b) Lobster  
(c) Centipede (d) Spider
8. Annelids have a  
(a) pseudocoelom (b) a true coelom  
(c) no coelom (d) none of the above
9. The number of arms present in octopus is  
(a) 6 (b) 8  
(c) 10 (d) 12
10. Star fish is included in the phylum  
(a) Echinodermata (b) Mollusca  
(c) Annelida (d) Arthropoda

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

11. (a) Explain the binomial nomenclature.  
Or  
(b) Write the classification of protozoa.
12. (a) Describe the body wall of heucosolenia.  
Or  
(b) Write an account of nematocyst.
13. (a) Explain the external morphology of Ascaris lumbricoides.  
Or  
(b) What is metamerism? Explain.
14. (a) Analyse the economic importance of lac insects.  
Or  
(b) Describe the cephalic appendages of prawn.
15. (a) Write the general characters of mollusca.  
Or  
(b) Write a note on pearl industry in India.

