

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

First Semester

Zoology — Core

INVERTEBRATA

(For those who joined in July 2021–2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Biological species concept was proposed by

- (a) Darwin
- (b) Edward
- (c) Cuvier
- (d) Mayer

6. The epidermis of body wall of Ascaris is

- (a) Syncytide
- (b) Unicellular
- (c) Multicellular
- (d) None of these

7. What is coelom (true body cavity)

- (a) A body cavity partially lined with mesoderm
- (b) A body cavity lined with endoderm
- (c) The body cavity of a sponge
- (d) A body cavity completely lined with mesoderm

8. Mollusc shells are secreted by the?

- (a) Foot
- (b) Mantle
- (c) Visceral mass
- (d) Gills

9. Which one of the following is a social insect?

- (a) Ant
- (b) Honeybee
- (c) Silkworm
- (d) Both (a) and (b)

2. Which of the following is not a mechanism of asexual reproduction?

- (a) Parthenogenesis
- (b) Fission
- (c) Budding
- (d) Hermaphroditism

3. Paragastric cavity of sponges is lined by

- (a) Amoebocytes
- (b) Chromocytes
- (c) Choanocytes
- (d) Pinnacocytes

4. The function of polyp is

- (a) Reproduction
- (b) Excretion
- (c) Respiration
- (d) Nutrition

5. Liver fluke belongs to the class

- (a) Cestoda
- (b) Nematoda
- (c) Trematoda
- (d) Turbellaria

10. The larval form of star fish is

- (a) Bipinnaria
- (b) Veliger
- (c) Trachophore
- (d) Redia

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) List the general characters of phylum protozoa.

Or

(b) Draw the labelled sketch of paramecium.

12. (a) Explain the salient features of ctenophora.

Or

(b) Examine the types of Corals.



13. (a) List down the salient features of Platyhelminthes.

Or

(b) Classify the Aschelminthes upto class level with examples.

14. (a) Describe the external features of Penaeus.

Or

(b) Give a brief note on species of honey bee.

15. (a) Explain the reproduction system of pila.

Or

(b) Explain the external morphology of starfish.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the mode of nutrition in paramecia.

Or

(b) Write an account on canal system in sponges.

Page 5 Code No. : 30567 E

17. (a) Explain the structure of obelia with a neat labelled sketch.

Or

(b) Write an essay on coral reefs.

18. (a) Discuss the external feature and parasitic adaptations of liver fluke.

Or

(b) Explain the metamerism in Annelida.

19. (a) List down the general characters of Arthropoda and classify upto classes.

Or

(b) Write an essay on larval forms of prawn.

20. (a) Explain the pearl culture industry in India.

Or

(b) Cephalopods are advanced molluscs — Substantiate.

Page 6 Code No. : 30567 E

