

(6 pages)

Reg. No. :

Code No. : 20598 E

Sub. Code : CSZO 42

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

Fourth Semester

Zoology

Skill Based Core — VERMITECHNOLOGY

(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.

1. The first segment of the earthworm is called
(a) pygidium (b) prostomium
(c) peristomium (d) clilellum
2. Earthworm belongs to the order
(a) Gnathobdellida (b) Errantia
(c) Neoligochaeta (d) Sedentaria

3. Identify the exotic species from the following
(a) Megascoclex species
(b) Eisenia fetida
(c) Lampito mauriti
(d) Perionyx excavatus
4. For earthworm culture, the selected specie should be
(a) high in growth rate
(b) resistance of diseases
(c) adaptable to climatic change
(d) all the above
5. The temperature required for making quality vermicompost.
(a) 20 – 32°C (b) 15 – 20°C
(c) 25 – 30°C (d) 35 – 40°C
6. The main change takes place during vermicomposting
(a) fragmentation of organic matter
(b) enhancement of microbial activity
(c) mineralization
(d) all the above

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7. The liquid that is collected after the passage of water through the vermiculture tank is
(a) vermifiltre (b) worm cast
(c) vermibed (d) vermiwash
8. Who is known as nature's ploughman
(a) Neries (b) Cattle
(c) Leech (d) Earthworm
9. Vermiculture in India was first initiated at
(a) Maharashtra (b) Tamil Nadu
(c) Kerala (d) Karnataka
10. Association for promotion of organic farming is located in _____.
(a) Bangalore (b) Goa
(c) Mysore (d) Chennai

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write brief note on food habits of earthworm.
Or
(b) Explain the digestive system of an Earthworm.

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12. (a) Explain the exotic species of earthworm used for vermicomposting.

Or

- (b) Describe the methods of collection of earthworms for vermicomposting.

13. (a) What are the requirements for vermicomposting?

Or

- (b) Explain the methods of vermicompost harvesting.

14. (a) Write short note on the economics of vermicomposting.

Or

- (b) Write short note on vermifilter.

15. (a) Write short notes about the packaging of vermicompost.

Or

- (b) Explain the problems in the marketing of vermicompost.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write an essay on the general characters of the class Oligochaeta.

Or

- (b) Describe the reproductive system of earthworm with diagram.

17. (a) State the specific characters of North and South Indian species of earthworm.

Or

- (b) Describe the culture technique of Earthworm.

18. (a) Explain the different methods of vermicomposting.

Or

- (b) Explain the mechanism and changes during vermicomposting.

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19. (a) List out the medicinal values of Earthworms.

Or

- (b) Explain the technical procedure adapted in vermivash preparation.

20. (a) Discuss the role of NGOs in financial supporting for vermicomposting.

Or

- (b) Give a detailed account on large scale manufacturing of vermicomposting.

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