

(6 pages)

Reg. No. :

Code No. : 20562 E Sub. Code : CSZO 42

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

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. Name the phylum which includes metamericly segmented, worm like animals
(a) arthropoda (b) annelida
(c) molluska (d) coelenterates
2. Earth worms are _____ feeders.
(a) carnivorous (b) omnivorous
(c) detritus (d) herbivorous

3. A common earthworm found in South India is _____
(a) Peripatus (b) Periplaneta
(c) Megascolex (d) Limulus
4. Earthworms, which live below ground is called _____
(a) epigenic (b) endogeic
(c) agenic (d) all of them
5. Write the mostly used method for vermicomposting in larger scale is _____
(a) pile method (b) tray method
(c) pot method (d) all the these
6. Write the main raw material necessary for vermicomposting
(a) cow dung (b) water
(c) urea (d) none
7. Select a liquid extract produced from vermicompost medium is _____
(a) compost (b) vermiwash
(c) castings (d) none

8. The diseases which are treated by earthworms are _____

- (a) bladder stones (b) jaundice
- (c) both (a) and (b) (d) AIDS

9. Two main methods of large-scale vermicomposting are _____

- (a) windrow and raised bed
- (b) heap method
- (c) tray method
- (d) pit method

10. NHM is the financial assistance, provided for fixing a vermicompost production units

- (a) National Horticulture Mission
- (b) National Health Mission
- (c) National Agri Mission
- (d) None

PART B — (5 × 5 = 25 marks)

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

11. (a) Describe the meganephridium of earth worms.

Or

(b) Recognize the importance of body setae and penial setae of earth worm.

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12. (a) Discuss the advantages of vermicomposting.

Or

(b) Summarize an exotic species of earthworms.

13. (a) Write a note on the pot method of vermicomposting.

Or

(b) Write short note on the changes takes place during of vermicomposting.

14. (a) Earth worm as a bioreactor. Explain.

Or

(b) Explain the uses of vermicomposting inland improvement.

15. (a) Orderly arranges the role of government in vermiculture.

Or

(b) Summarizes about large scale production 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) Enumerate the female reproductive system of earthworm.

Or

- (b) Identify the components of digestive system of earthworm.

17. (a) Discuss the various steps involved in vermiculture techniques.

Or

- (b) Describe the species used in vermicomposting.

18. (a) Write the note on the heap method and tray method of vermiculture.

Or

- (b) Write a note on raw materials needed for vermicomposting.

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19. (a) Explain in detail about medicinal value of earth worm.

Or

- (b) Illustrate the production and composition and uses of vermi wash.

20. (a) Explain the packaging and marketing the vermicompost.

Or

- (b) Summarize the influences of chemical inputs on earthworm activities.

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