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Reg. No. : .....

Code No. : 30578 E Sub. Code : CSZO 42

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

Fourth Semester

Zoology – Skill Based Core

VERMITECHNOLOGY

(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. Identify the bristle like structure which is present on the skin of earthworms called \_\_\_\_\_.  
(a) clitellum (b) setae  
(c) pineal setae (d) clitellum
2. Select the excretory organs of earth worms.  
(a) nephridia (b) malphigian tubules  
(c) kidney (d) lungs

3. Show the earth worms which are also called as surface dwellers.  
(a) endogenic (b) epigeic worms  
(c) exogenic (d) all the above
4. Select the name of the body which is divided into 100-120 segments.  
(a) peristomeum (b) metameres  
(c) setal sac (d) cocoon
5. Write the main raw materials necessary for vermicomposting.  
(a) cow dung (b) leaves  
(c) earthworms (d) all of these
6. Write the process of converting organic waste into worm castings are \_\_\_\_\_.  
(a) vermicomposting (b) vermiwash  
(c) manure (d) extract
7. Select the name of the Vermifiltered water  
(a) aqua water (b) vermiwash  
(c) vermiaqua (d) supernatant

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8. The earthworms are used to treat \_\_\_\_\_ diseases.

- (a) bladder stones  
(b) jaundice  
(c) alopeci  
(d) all of these

9. Select the mostly used method for vermicomposting in larger scale is

- (a) Pile method  
(b) Tray method  
(c) Pot method  
(d) None

10. National Horticulture Mission provides \_\_\_\_\_ for fixing a vermicompost production units.

- (a) financial assistance  
(b) raw material  
(c) machine  
(d) all of these

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) State about Penial setae with diagram.

Or

- (b) Write down the systematic position of Earthworm.

12. (a) Summarize the exotic species.

Or

- (b) Explain the native species of Earth worms.

13. (a) Explain the changes during the vermicompostings.

Or

- (b) Discuss the Tray method of Vermicomposting.

14. (a) Explain the role of earth worms in sewage treatment.

Or

- (b) Explain the application of Vermi wash.

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15. (a) Defend the packaging of vermicompost.

Or

(b) Summarize the financial support given by the government for the vermin culture.

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 excretion in earth worm.

Or

(b) Describe the male reproductive system of Earthworms.

17. (a) Discuss the collection and preservation of earth worms for Vermicomposting.

Or

(b) Summarize the culture techniques of Earth worms.

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

Or

(b) Write down the raw materials required for vermicomposting.

19. (a) Explain the economics and benefits of vermicomposting.

Or

(b) Explain the role of earth worms as an animal feed.

20. (a) Summarize the large scale manufacturing of vermicompost.

Or

(b) Explain the role of NGO's for vermiculture work.