

(6 pages)

Reg. No. : .....

Code No. : 20874 E Sub. Code : ESZO 21

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

Second Semester

Zoology

Skill Enhancement Course — II — BIOCOMPOSTING  
FOR ENTREPRENEURSHIP

(For those who joined in July 2023 onwards)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Select the organisms which are used in vermicomposting
- (a) tape worm (b) earth worm  
(c) round worm (d) whip worm

7. The \_\_\_\_\_ is one of the factors that influence the composting.

- (a) Particle size  
(b) Particle nutrient  
(c) Particle colour  
(d) None

8. Provides a source of plant nutrients and improves

- (a) Soil fertility (b) Soil acidity  
(c) Soil colour (d) Soil erosion

9. The \_\_\_\_\_ ratio decides the initiation of composting process.

- (a) carbon (b) carbon and nitrogen  
(c) nitrogen (d) nitrites

10. Compost mulch conserves water and stabilizes soil \_\_\_\_\_

- (a) size (b) temperature  
(c) alkalinity (d) colour

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2. Choose the gas which is necessary for bio composting.
- (a) Oxygen (b) Carbon  
(c) Nitrogen (d) Hydrogen
3. The percentage of nitrogen present in the compost is
- (a) 5 (b) 2  
(c) 1 (d) 0.5
4. A microbiological decomposition of organic residues collected from urban area is known as \_\_\_\_\_
- (a) rural compost (b) compost  
(c) urban compost (d) none
5. Anaerobic decomposition to start with, followed by aerobic fermentation in \_\_\_\_\_
- (a) Indhore (b) Coimbatore method  
(c) Chennai method (d) Bangalore method
6. In indore method of composting, organic wastes are spread in the \_\_\_\_\_ to serve as bedding.
- (a) cattle shed (b) road  
(c) well (d) poultry shed

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PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write the raw materials necessary for the biocomposting.

Or

- (b) Write on anaerobic method of biocomposting.

12. (a) Explain the advantages of field pit of composting.

Or

- (b) Comment on tank method of compost.

13. (a) What are the materials necessary for biocompost pit preparation?

Or

- (b) Explain the conditions necessary for biocompost bed preparation.

14. (a) Discuss the waste reduction through composting.

Or

- (b) How the compost increases the plant growth?

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[P.T.O.]

15. (a) Prepare the project proposal for biocompost.

Or

(b) Discuss the role of self help groups in biocomposting.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Discuss the vermicomposting.

Or

(b) Elaborate the ecological importance of biocomposting.

17. (a) Discuss the advantage and disadvantages of batch composting.

Or

(b) Elaborate the benefits of large scale techniques of biocomposting.

18. (a) How do you prepare the bed for your composting?

Or

(b) How can you prepare biocompost pit?

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19. (a) Discuss the advantages of compost in soil fertility.

Or

(b) Elaborate the value added products of composting.

20. (a) Prepare the budget for establishing small biocompost unit.

Or

(b) Discuss the advantages of Composting.

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