

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

(6 Pages)

Reg. No:

Question. Code No : 25E00603

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UG Degree - End Semester Examinations, April 2025

Second Semester

B.Sc. ZOOLOGY

SEC – Bio composting For Entrepreneurship

(For those who joined in July 2024 onwards)

Time : 3 Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

1. What is biocomposting?
 - (a) Decomposing organic waste using microorganisms
 - (b) Burning organic waste to produce energy
 - (c) Converting plastic waste into compost

- (d) Using chemicals to break down organic matter
2. How does biocomposting help in waste management?
- (a) By increasing landfill waste
(b) By converting organic waste into nutrient-rich compost
(c) By producing plastic from waste
(d) By using synthetic chemicals for decomposition
3. Which biocomposting method involves digging shallow pits for decomposition?
- (a) Windrow composting (b) Field pit composting
(c) Continuous composting (d) Tank composting
4. Which type of biocomposting involves using earthworms for decomposition?
- (a) Aerobic composting (b) Windrow composting
(c) Anaerobic composting (d) Vermicomposting
5. Which amendment is commonly used to enhance compost quality?
- (a) Chemical fertilizers (b) Plastic bags
(c) Cow dung (d) Pesticides
6. What is the ideal moisture level for composting?
- (a) 0-10% (b) 30-50%
(c) 70-90% (d) 100%

7. Which of the following is a major benefit of biocompost in soil?
- (a) Increases soil erosion (b) Makes soil infertile
(c) Reduces microbial activity (d) Improves soil fertility
8. Which value-added product can be obtained from biocompost?
- (a) Synthetic fertilizers (b) Plastic manure
(c) Biofertilizers (d) Chemical pesticides
9. Which government scheme supports the establishment of biocompost units in rural areas?
- (a) Swachh Bharat Mission
(b) Pradhan Mantri Jan Dhan Yojana
(c) Digital India Campaign
(d) Atal Mission for Rejuvenation and Urban Transformation
10. What is the main benefit of biocompost unit for the Self-Help Group (SHG) members?
- (a) Reducing the need for water usage
(b) Increasing the use of chemical fertilizers
(c) Generating a source of income and employment
(d) Decreasing the need for organic waste

PART - B (5 X 5 = 25 Marks)

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

Answer should not exceed 250 words.

11. (a) Explain the differences between aerobic and anaerobic composting.

(OR)

- (b) Write the raw materials necessary for the bio composting.

12. (a) Compare and contrast the field pit of composting.

(OR)

- (b) Comment on tank method of compost.

13. (a) Explain the role of organic amendments in enhancing biocompost quality.

(OR)

- (b) What are the materials necessary for the biocompost pit preparation?

14. (a) Explain the role of biocompost in promoting plant growth.

(OR)

- (b) What are some value-added products derived from biocompost?

15. (a) How can a Self-Help Group (SHG) benefit financially from a biocompost unit?

(OR)

(b) How does a small biocompost unit contribute to employment generation in rural areas?

PART - C (5 X 8 = 40 Marks)

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

Answer should not exceed 500 words.

16. (a) Describe the different types of biocomposting with suitable examples.

(OR)

(b) Write an account on vermicomposting.

17. (a) Describe different biocomposting technologies and their suitability for various conditions.

(OR)

(b) Discuss the advantages and disadvantages of pit composting compared to heap composting.

18. (a) Elaborate the process of preparing a biocompost pit with suitable amendments.

(OR)

(b) Discuss the importance of different organic and inorganic amendments in improving compost quality.

19. (a) Discuss the impact of biocompost on soil health and fertility improvement.

(OR)

(b) How does biocomposting serve as an eco-friendly solution for waste management and agricultural sustainability?

20. (a) Prepare a project proposal outline for setting up a small biocompost unit for a Self-Help Group.

(OR)

(b) Explain the role of government schemes and subsidies in supporting SHGs for biocompost production.