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Reg. No. :

Code No. : 10878 E Sub. Code : ESZO 21

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 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. Aerobic composting requires _____.
(a) O₂ (b) CO₂
(c) NH₃ (d) H₂SO₄
2. Compost is also known as
(a) Lay (b) Water
(c) Humus (d) Soil
3. Ground heap biocomposting technology is a _____ technology.
(a) In situ (b) Ex situ
(c) Tank (d) None
4. The pH of the raw material should not exceed.
(a) 6.5 – 7 (b) 5.5 – 6
(c) 6 – 6.5 (d) 5 – 5.5
5. Biocompost pit size should be about _____ deep.
(a) 5 m (b) 1 m
(c) 10 m (d) 3 m
6. In composting pit, spread dry wastes with cattle dung and soil in the ratio of
(a) 1 : 1 : 1 (b) 1 : 2 : 1
(c) 4 : 2 : 1 (d) 3 : 2 : 1
7. Biocompost is a rich source of _____ for the soil.
(a) Carbon (b) Carbon monoxide
(c) Sulphur (d) Hydrogen

8. Biocomposting is a _____ for wastes.
(a) Conditioner (b) Container
(c) Scavenger (d) Producer
9. The selling price of vermicompost is
(a) Rs. 10/kg (b) Rs. 30/kg
(c) Rs. 50/kg (d) Rs. 75/kg
10. The vermicompost is harvested in _____ days.
(a) 60 (b) 80
(c) 100 (d) 90

PART B — (5 × 5 = 25 marks)

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

11. (a) Mention the basic steps of compost making.

Or

- (b) Describe the ecological importance of biocomposting.

12. (a) Describe the method of filling the biocomposting tank.

Or

- (b) Explain batch composting technology.

13. (a) Explain how the biocompost pit is prepared.

Or

- (b) Describe the preparation of compost bed.

14. (a) Application of biocompost in waste reduction – Give short notes.

Or

- (b) Applications of biocompost in value added products – Illustrate.

15. (a) Give an account on the economic benefits of composting.

Or

- (b) Explain how do the self help group benefitted from biocompost unit.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Describe aerobic and anaerobic biocomposting in detail.

Or

- (b) Critically analyse vermicomposting.

17. (a) Illustrate Heap composting technology.

Or

- (b) Describe continuous method of biocomposting technology.

18. (a) Explain the preparation of vermicompost pit.

Or

- (b) Describe how the vermicompost bed is prepared.

19. (a) What are the application of Biocompost in soil fertility?

Or

- (b) Highlight the application of Biocompost in promotion of plant growth.

20. (a) Explain economics of establishment of a small biocompost unit.

Or

- (b) Generally what are the 10 key elements needed for project proposal for Self Help Group.
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