

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 : 25003505

Course Code : 24PEB032

PG Degree - End Semester Examinations, November 2025

Third Semester

M.Sc. BOTANY

Entrepreneurial Opportunities in Botany

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer:

1. Which nutrient is mainly supplied by urea based fertilizer?
(a) Phosphorus (b) Potassium
(c) Nitrogen (d) Calcium
2. Find the main difference between aerobic and anaerobic

composting.

- (a) Temperature of the compost (b) Use of worms
- (c) Presence or absence of oxygen (d) Only one produces humus

3. Name the type of propagation that occurs by seeds.

- (a) Vegetative propagation (b) Budding
- (c) Asexual reproduction (d) Sexual reproduction

4. Select the factor on which the success of grafting mainly depends on

- (a) Joining of cambial layers (b) Presence of fruits
- (c) Age of the flower (d) Quantity of fertilizer

5. Where is terrace garden usually established?

- (a) In water ponds (b) On rooftops
- (c) Beside ornamental hedges (d) Along driveways

6. Which feature in a garden is planted closely to form a living boundary or fence?

- (a) Lawns (b) Flowerbeds
- (c) Paths (d) Hedges

PART - B (5 X 5 = 25 Marks)

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

Answer should not exceed 250 words.

11. (a) Construct the advantages of vermicompost over traditional compost.

(OR)

- (b) Identify the importance of Panchakaviyam in organic farming.

12. (a) List any five common garden tools and state their uses.

(OR)

- (b) Analyze how growth regulators help cuttings to root.

13. (a) Compare and contrast a kitchen garden and a vegetable garden for marketing.

(OR)

- (b) Recommend the importance of artificial ponds in garden landscaping.

14. (a) Simplify the steps in the preparation of wine.

(OR)

(b) Examine the benefits and safety issues of using chemical preservation in foods.

15. (a) Explain the significance of mushrooms in human nutrition and economy.

(OR)

(b) Criticize the importance of spawn isolation in mushroom cultivation.

PART – C (5 X 8 = 40 Marks)

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

Answer should not exceed 600 words.

16. (a) Discuss the NPK composition of commonly used fertilizers and their role in crop growth.

(OR)

(b) Compile the process of vermicompost preparation and vermiwash extraction with their benefits.

17. (a) Explain the horticultural techniques of cutting and layering.

(OR)

(b) Compare grafting and budding techniques in horticulture by explaining their procedure and advantages.

18. (a) Predict the role of different types of gardens in urban and rural life.

(OR)

(b) Compile the role of garden components in overall garden aesthetics.

19. (a) Design a method to increase the shelf life of tomatoes using different preservation techniques.

(OR)

(b) Develop a small fruit processing workflow including suitable methods for packaging, preservation and product-preparation.

20. (a) Construct a simple protocol for growing button mushrooms, including all the main steps.

(OR)

(b) Discuss the challenges faced in large-scale Oyster mushroom cultivation and suggest solutions.

