

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2025 ONLY)

25PBY2E3

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS :APRIL - 2026
M.Sc.-BOTANY **MAXIMUM MARKS: 75**
SEMESTER: II **TIME : 3 HOURS**

HORTICULTURE AND LANDSCAPING

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

K1

1. Which division of horticulture focuses specifically on the cultivation of vegetables?
a) Pomology b) Floriculture c) Olericulture d) Viticulture
2. Applying nitrogen fertilizers in split doses (e.g., before flowering & after fruit set) helps prevent: _____.
a) Soil compaction b) Nutrient leaching losses c) Pest infestation d) Plant wilting
3. Name the plant hormone is generally known to induce and maintain seed dormancy?
a) Auxins b) Gibberellins c) Ethylene d) Abscisic acid
4. In which method of artificial propagation does a branch develop roots while still attached to the parent plant?
a) Cutting b) Grafting c) Layering d) Budding
5. Which of the following is a common method for controlling moisture loss in fruits like apples?
a) Hydrocooling b) Waxing c) Room cooling d) Blanching

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

K2

6. How do environmental factors affect plant growth and development?
7. Why are bioinoculants important?
8. How does viability affect germination?
9. What are the benefits of hydroponics?
10. Site the best way to grow plants indoors.

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. K3

11. a) Identify the major division in horticulture.
(OR)
b) Discuss the biotic and abiotic factors affecting plant growth
12. a) Why are inorganic materials used in potting media?- Explain
(OR)
b) Estimate the advantage of mixed cropping and intercropping.

(CONTD 2)

13. a) Operate the problems in cultivation of medicinal plant
(OR)
b) Determine the strategy for adaptive cultivation.
14. a) How to make a rockery garden? Add notes on its advantages.
(OR)
b) Discuss the advantages of sand and gravel culture in horticulture
15. a) Prepare the liquid Co₂ extraction procedure of Jasmine concrete .
(OR)
b) Summerize the soil types and cultivation practice in apple.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K4 (Or) K5)

16. a) Classify the horticulture plants with suitable examples
(OR)
b) Analyse the advantages of primary and secondary nutrients
17. a) Examine the types of irrigation in horticulture.
(OR)
b) How do you apply fertilizer in agricultural field?- Elaborate
18. a) Compare and contrast direct and indirect seedling production in nurseries
(OR)
b) Simplify the mechanism of breaking seed dormancy?. Mention its advantages.
19. a) Examine propagation through specialized underground structure?
(OR)
b) Infer the methods and importance of layerage.
20. a) Select the principle and elements of flower design.
(OR)
b) Focus the innovative and strategies in post harvesting technology of horticultural crops.
