

**(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2024 ONLY)**

**24PBY2E4**

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI  
END-OF-SEMESTER EXAMINATIONS : MAY-2025**

**COURSE NAME: 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. Horticulture word derived from\_\_\_\_\_.
  - a. Greek
  - b. English
  - c. Latin
  - d. French
2. The technique that slowly releases water to plants through small tubes is\_\_\_\_\_.
  - a. Surface Irrigation.
  - B. Localized Irrigation.
  - C. Manual Irrigation
  - d. Trickle irrigation
3. During the germination of seeds, the seed coat ruptures due to\_\_\_\_\_.
  - a. massive imbibition of water
  - b. differentiation of cotyledons
  - c. a sudden increase in cell division
  - d. massive glycolysis in cotyledons and endosperm
4. Name a method in which the cut stems of two different plants are joined together to grow as a single plant?
  - a. Layering
  - b. Grafting
  - c. Cutting
  - d. Budding
5. Method of growing plants in a glass or plastic container in controlled environment is\_\_\_\_\_.
  - a. Bonsai.
  - b. Terrarium
  - c. Mixed culture
  - d. Rockery.

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.**

**(K2)**

6. Mention any two importance of Horticulture.
7. What are Organic Fertilizers?
8. What is seed viability?
9. What is layering?
10. Define bonsai.

**SECTION – B**

**(5 X 5 = 25 MARKS)**

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

11. a) Compare the biotic and abiotic factors for plant growth. .  
**(OR)**  
b) Give a brief account on the history of horticulture.
12. a) Write the advantages of sprinkler irrigation ?  
**(OR)**  
b) What is the surge method of irrigation? How it works

**(CONTD.....2)**

13. a) What are the steps of seed propagation?  
**(OR)**  
b) Explain the methods of breaking seed dormancy.

14. a) Sketch any two types of layering and enumerate them.  
**(OR)**  
b) Describe types of stem cutting?

15. a) List the significance of cut flower industry in India.  
**(OR)**  
b) Give a brief account on landscaping in horticulture.

**SECTION – C****(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.**  
**(K4 (Or) K5)**

16. a) Explain the role of primary and secondary nutrients in plant growth.  
**(OR)**  
b) Outline the divisions of Horticulture.

17. a) Describe methods of fertilizer application .  
**(OR)**  
b) Evaluate the organic, inorganic fertilizers and potting media.

18. a) Explain the process of direct seedling production in nurseries.  
**(OR)**  
b) Explain the Green House concept in detail..

19. a) Analyze the propagation of plants through specialized underground organs.  
**(OR)**  
b) Describe the hydroponics and gravel culture method of production of horticultural crops.

20. a) Discuss pomology and mention the cultivation of apple and pineapple fruits.  
**(OR)**  
b) Explain the steps involved in post-harvest handling of Horticultural products.

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