

**MSc Sem.-1 Examination****401****Horticulture & Garden Management****February-2025****Time : 2-30 Hours]****[Max. Marks : 70****QUESTION-1 Write the following**

- i) Give the Economic importance of Horticulture. 7 Marks
- ii) Explain Root modification with example. 7 Marks

**OR**

- i) Explain Stem modification with example. 7 Marks
- ii) Explain Chimeras with examples. 7 Marks

**QUESTION-2 Write the following**

- i) Define manures. Describe the different types of manures. 7 Marks
- ii) What is soil sterilization? Give its importance. 7 Marks

**OR**

- i) Short note on: Different types of potting media. 7 Marks
- ii) Write a note on: Soil organisms and its importance. 7 Marks

**QUESTION-3 Write the following**

- i) Write a short note on: Plant Growth Regulators 7 Marks
- ii) Describe in detail: Objectives and significance of pruning. 7 Marks

**OR**

- i) Describe the developmental stages of growth: Vegetative and reproduction. 7 Marks
- ii) Short note on Translocation. 7 Marks

**QUESTION-4 Write the following**

- i) Write Backcross method in detail. 7 Marks

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ii) Explain hybridisation in detail.

7 Marks

**OR**

i) Explain markers in plant breeding.

7 Marks

ii) Write Pedigree method in detail.

7 Marks

**QUESTION-5** Attempt any seven out of twelve.

14 Marks

1. Give the industrial importance of horticulture.
  2. Give the list of types of root modification.
  3. Give 6 examples of variegation of any plant part.
  4. Give a list of different potting media.
  5. What is water holding capacity?
  6. What is relative humidity?
  7. Explain: Transpiration.
  8. Name any two plant growth promoters.
  9. Give the significance of pruning.
  10. Why plant introduction is important?
  11. Give examples of four tissue cultured plants.
  12. Explain explant sterilization process in short.
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