

**M.Sc Sem-3 Examination
501****Horti Science & GM****Time : 2-30 Hours]****November-2024****[Max. Marks : 70****QUESTION-1** Write the following

- i) Explain Maturity Indices 7 Marks
- ii) Write short notes on any two: 7 Marks
 - a. Harvesting
 - b. Ripening agents
 - c. Types of Maturity

OR

- i) Describe Hand harvesting with its advantages and disadvantages 7 Marks
- ii) Describe different methods of Mechanical harvesting. 7 Marks

QUESTION-2 Write the following

- i) Which are the low-cost storage methods for Fruits and explain it. 7 Marks
- ii) Write a note on: Pre-Harvest factors, Biological Factors and Environmental factors for post-harvest losses. 7 Marks

OR

- i) Give a chart for Causes of Post-Harvest Losses and describe any two factors. 7 Marks
- ii) Give economic importance of post-harvest technology of fruits. 7 Marks

QUESTION-3 Write the following

- i) Explain some causes of post-harvest physiological changes in vegetables. 7 Marks
- ii) Describe the economic importance and storage methods of vegetables. 7 Marks

OR

- i) Describe on farm processing and storage of vegetables. 7 Marks
- ii) Explain in detail: Total quality management (TQM) in vegetables. 7 Marks

(P.T.O)

QUESTION-4 Write the following

- i) Explain the Economic Importance of Floriculture 7 Marks
- ii) Explain Floriculture in India 7 Marks

OR

- i) Describe the storage methods for cut flowers. 7 Marks
- ii) Describe the different factors causing the loss of post-harvest quality of cut flowers. 7 Marks

QUESTION-5

14 Marks

- Attempt any seven out of twelve. (2 marks each)

1. Explain the Principles of Harvesting.
 2. Describe any two physiological stages in the life span of horticultural crops:
 - a. Maturation
 - b. Ripening
 - c. Senescence
 3. What are Climacteric and Non-Climacteric fruits?
 4. Which storage system works without any electricity.
 5. What is the aim of Total Quality management?
 6. Write advantages and disadvantages of waxing in fruit.
 7. What are post-harvest losses?
 8. What is post-harvest physiology?
 9. Write three main objectives of post-harvest technology.
 10. Define Floriculture. What are the various uses of floriculture products?
 11. How does water quality affect the post-harvest life of cut flowers?
 12. What is the role of Ethylene in the post-harvest life of cut flowers?
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