

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: HORT 366	Title	: Post-harvest Management and Value Addition of Fruits and Vegetables		
Credits	: 2 (1+1)				
Day & Date	: Wednesday, 12.07.2023	Time	: 14:00 to 16:00 hrs.	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Write the scope for post-harvest management and value addition of fruits and vegetables with suitable examples.
- Q.2 Explain zero energy cool chamber storage of fruits and vegetables with diagram.
- Q.3 Define ripening. Write in brief about important physico-chemical changes occurring during ripening.
- Q.4 Enlist modern methods of storage for fruits and vegetables. Write in brief about working of controlled atmospheric (CA) storage, its advantages and disadvantages.
- Q.5 Enlist different pre-harvest factors affecting post-harvest quality of fruits and vegetables and elaborate impact of environmental factors on post-harvest life with examples.
- Q.6 Write short notes on (Any Two):
- a) Importance of packaging material
 - b) Methods for hastening delaying ripening process
 - c) Modified Atmospheric Packaging (MAP)
- Q.7 Write are the FPO specifications of tomato ketchup? Write the procedure for preparation of tomato ketchup.
- Q.8 Describe the procedure for preparation of jelly from Guava fruits.
- Q.9 Give flow sheet for preparation of Grape wine.
- Q.10 Enlist different methods of preservation of fruits and vegetables. Describe preservation by salt.

SECTION 'B'

- Q.11 Fill in the blanks:
- 1) Ethylene is produced from an essential amino acid, named as _____.
 - 2) MOFPI stands for _____.
 - 3) An ideal fruit for making jelly should be rich in _____.
 - 4) _____ is an example of Class II preservative used for preservation in fruit products.
- Q.12 Spell-out the following abbreviations:

1) CFTRI

2) RTS

3) PLW

4) IIP

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