MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: H/PHT 362	Title	: Post harvest Management of Horticultural Crops		
Credits	: 3 (2+1)				
Day & Date	: Wednesday, 05.07.2023	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80

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 Explain the importance of post-harvest management in horticultural crops.

Q.2 Explain different methods to determine maturity of fruits and vegetables with suitable examples.

Q.3 Describe in brief the physiological and biochemical changes during ripening of fruits.

Q.4 Write in brief the maturity indices of the following crops:

a) Papaya b) Sapota c) Onion d) Watermelon

Q.5 Discuss in short pre-harvest factors affecting post-harvest quality of horticultural crops.

Q.6 Enlist different methods of storage of horticultural crops. Describe controlled atmospheric storage.

Q.7 Write in brief different post-harvest treatments of horticultural crops to increase the shelf life.

Q.8 Explain in brief the maturity and harvesting of the following crops:

a) Ashwagandha b) Sarpagandha c) Lemon grass d) Java citronella grass

Q.9 Write short notes on (Any Two):

a) Waxing b) Importance of packaging c) Cushioning

Q.10 Explain in brief the maturity indices of the following crops:

a) Rose b) Gerbera c) Carnation d) Chrysanthemum

SECTION 'B'

Q.11 Define the following terms:

1) Horticultural maturity 2) Pulsing

3) Refrigeration 4) Shelf life

5) Respiration 6) Climacteric fruits

7) Transpiration 8) Irradiation

(P.T.O.)

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Q.12 State True or False:

1) Hydrated lime is a CO_2 absorber.

2) ZECC fails to work effectively during rainy season.

3) CA is less expensive technology than MA.

4) Strawberry has an extremely high rate of respiration.

5) RQ for glucose is 0.1.

6) VHT was developed to control infestation of fruit flies.

7) Harvesting is detaching a commodity from the point of its origin.

8) Oil content is an important maturity index for apple.

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