



KERALA AGRICULTURAL UNIVERSITY
B.Tech. (Food Engineering) 2019 Admission
Re-Examination – August 2022

Fdpr.2201

Post Harvest Engineering of Horticultural Crops (2+1)

Marks: 50
Time: 2 hours

I Fill in the blanks

(10x1=10)

1. Transpiration occurs through _____.
2. RTS expand _____.
3. _____ is the practice of modifying the gas composition of the internal *atmosphere* of a storage in order to improve the shelf life.
4. _____ plant hormone plays a important role in root development.

State True or False

5. Environmental factors affecting post harvest life of fruits and vegetables.
6. The fleshy fruits are very susceptible to mechanical damage.
7. Climacteric fruits undergo a number of changes during fruit ripening.
8. While fruit ripening, the acidity content will decrease.
9. Conditioning /hardening of flowers after harvest will restore the turgor of the flowers.

Answer the following

10. Give an example for climacteric fruit.

II Write short notes on ANY FIVE of the following

(5x2=10)

1. What is horticultural / commercial maturity?
2. What is canning?
3. What is transpiration?
4. What is osmotic dehydration?
5. What is mechanical injury of fruits and vegetables?
6. Define and write about plant hormone.
7. What is processing by irradiation?

III Answer ANY FIVE of the following

(5x4=20)

1. Write about Modified and Controlled atmosphere storage.
2. Write about environmental factors affecting post harvest deterioration.
3. Write about types of dryer i.e. freeze dryer and foam mat dryer.
4. Write about importance of post-harvest engineering in horticultural crops.
5. Write about dehydration and its importance.
6. Write about Engineering properties of horticultural crops.
7. Write about Post harvest losses in fruits and vegetables.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Write about post harvest handling of cut flowers.
2. Write about process flow charts for preparation of tomato juice, paste and pure.
