



QP CODE: 25047260



25047260

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc FOOD TECHNOLOGY AND QUALITY ASSURANCE

Core Course - FQ010303 - TECHNOLOGY OF FRUITS & VEGETABLES

2019 ADMISSION ONWARDS

A56A1ABF

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Demonstrate the effect of acid, alkali & prolonged cooking on vegetables containing different pigments.
2. How can we control Post harvest loss by chemical treatment?
3. Differentiate between climacteric & non climacteric fruits with suitable examples.
4. Expand DFFB & mention the significance of DFFB in determination of harvest maturity indices.
5. What is waxing? Mention the importance of waxing of fruits.
6. Describe evaporative cool chambers.
7. Add a detailed note on lye peeling.
8. State the relationship between raw material selection and quality of canned food.
9. What are the principles behind HPP.
10. Mechanism behind UV Technology.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Discuss about the major changes that takes place in nutritive value of fruits & vegetables.
12. What is chilling? List out the factors affecting chilling & mention the equipments used for chilling.
13. Discuss about mechanical harvesting methods.
14. Discuss about rail & air transportation methods used for fruits & vegetables.
15. Compare hot water treatment & vapour heat treatment.





16. Describe active packaging in detail.
17. Add a note on equipments used for blanching.
18. Describe the mechanism of germicidal action using electrolysed water treatment.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Discuss about the various causes for post harvest losses in fruits & vegetables.
20. Discuss about the changes occurring in fruits during ripening.
21. Explain in detail about post harvest operations & its methods.
22. Explain the following techniques in detail with its application (i) UV light technology (ii) Ultra sound technology.

(2×5=10 weightage)

