



**B SC FOOD SC & TECHNOLOGY**  
**Third Semester**  
**FRUITS & VEGETABLE PROCESSING**  
**(BFST- 302)**

**Duration: 3Hrs.**

**Full Marks: 70**

Part-A (Objective) =20  
Part-B (Descriptive) =50

**(PART-B: Descriptive)**

**Duration: 2 hrs. 40 mins.**

**Marks: 50**

**Answer any four from Question no. 2 to 8**  
**Question no. 1 is compulsory.**

1. What are the nutrients present in fruits & vegetables? Discuss. (10)
2. Classify vegetables with examples. How vegetables differ from fruits? Write in brief about structural features of fruits & vegetables. (4+2+4 = 10)
3. What do you mean by post harvest management? Write in brief about quality criteria for fresh produce. (5+5= 10)
4. What do you mean by osmotic dehydration? Discuss the types of chemical preservatives used to preserve fruits & vegetables. (2+8 = 10)
5. What is edible coating? How is it prepared? What is the use of edible coating for fruits & vegetable products. (2+4+4 = 10)
6. What is the principle of high pressure processing ? Write the affect of high pressure processing on bacteria, virus, enzyme & food. (2+8 = 10)
7. What is modified atmosphere packaging? How is it different from controlled atmosphere Packaging? Discuss some pros & cons of MAP. Enlist some machines used in CAP. (2+2+4+2 = 10)
8. Write short notes on (i) Future trends in fruits & vegetable processing (ii) Choice of processing technologies. (5+5 = 10)

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9. Pungency in onion is due to the presence of

- a) Capacin
- b) Diallyl disulphide
- c) Iso thiocyanate
- d) allyl propyl disulphide

10. Controlled atmospheric storage of fruits & vegetables is done to

- a) Maintain higher conc. of ethylene than the normal atmosphere
- b) Maintain higher conc. of CO<sub>2</sub> than the normal atmosphere
- c) Maintain higher conc. of N<sub>2</sub> than the normal atmosphere
- d) None of these.

**II. Fill in the blanks**

1×5=5

- a) Raw papaya contain an enzyme called \_\_\_\_\_ .
- b) Lycopene is a pigment found in \_\_\_\_\_.
- c) Anthoxanthin is a \_\_\_\_\_ soluble pigment.
- d) Banana is an example of \_\_\_\_\_ fruit.
- e) The development of brown color in the cut apple is due to \_\_\_\_\_.

**III. Write the full form of.**

1×5=5

- i) HPP
- ii) RTS
- iii) TSS
- iv) FPO
- v) KMS

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