

2021

(Held in 2022)

Paper : FPT/FPM-VC-1036

**(Industrial Processing of Fruits and Vegetables)**

(Food Processing Technology/Food Processing and Quality Management)

Full Marks: 60

Time: 3 hours

*The figures in the margin indicate full marks for the question*

**1. Answer the following as directed.**

1X7=7

- Write two subsectors of fruits and vegetables processing?
- Write one preliminary unit operation name which is employed during processing of fruits.
- Name the enzyme involved in the browning of fruits.
- Name the acid present in grape.
- \_\_\_\_\_ is an example of artificial ripening agent. (Fill in the blank)
- Name the instrument used to measure total soluble solid.
- What is syrup?

**2. Answer the following questions:**

2X4=8

- Define FIFO and FEFO.
- Write the FPO specifications of TSS of jam and tomato ketchup.
- What are climacteric and non-climacteric fruits? Give examples.
- Name the pectic substances present in fruits.

**3. Answer the following (any three):**

5X3=15

- Write the flow chart of tomato ketchup.
- Write the different factors affecting the post-harvest losses of fruits and vegetables?
- What is peeling? Briefly explain the different methods of peeling.
- Write a note on maturity indices of fruits and vegetables.
- How will you prepare and maintain work area and process machineries as a jam, jelly and ketchup processing technician?

**4. Answer the following (any three):**

10X3=30

- What is the difference between juice and pulp? Explain the method of fruit juice preparation with the flow chart.
- What is canning? Write the process of canning with a flow chart. Write about the spoilage of canned foods.

- c) What is the difference between jam and jelly? Write the process flow chart of fruit jelly. Write about the defects in jelly.
- d) What is pickling? Explain different types of pickling processes with flowcharts. Write about the defects in pickle.
- e) What is audit and SOP? What is the importance of audit and SOP in food manufacturing unit? Classify audit.

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