

2025

## FOOD PROCESSING TECHNOLOGY

Course Name : Food Processing- 1

Course Code : FPT-DSC-1024

Full Marks : 45

Time : 1½ Hours

*The figures in the margin indicate full marks for the questions.*

1. Objective type questions : 1x5=5
- i) Entrepreneurship refers to :
    - a) Entrepreneurship in government sector
    - b) Buying a franchise only
    - c) Process of starting and managing a business venture
    - d) Working for others
  - ii) In a dairy industry, pasteurization is used to-
    - a) Kill harmful microorganism
    - b) Freeze the milk
    - c) Evaporate water
    - d) Change fat content
  - iii) Food spoilage is mainly caused by :
    - a) Microorganisms and enzymatic activity
    - b) Pure air exposure
    - c) Light and sound waves
    - d) Filtration process
  - iv) Which of the following expresses concentration in parts per million?
    - a) % (Percent)
    - b) ppm
    - c) mg/mL
    - d) molarity

*(Turn over)*

- v) Which of the following is NOT an attribute of food quality ?
- Texture
  - Flavor
  - Color
  - Profit Margin
2. Very short answer type questions (*Any five*) :  $2 \times 5 = 10$
- Mention any two aims of food processing.
  - Define ppm.
  - Write two extrinsic properties affecting food quality.
  - Define pasteurization. Give an example of any type of oven used in food processing.
  - Name two qualities required to become a successful entrepreneur.
  - What is Unit operation in food processing ? Give two examples.
  - What is the need for entrepreneurship in the food sector ?
3. Short answer type questions (*Any four*) :  $5 \times 4 = 20$
- Explain the major causes and types of food spoilage.
  - What is ingredient formulation ? Explain the importance of ingredient formulation.
  - Write short notes on normality and molarity with their mathematical expressions.
  - Describe the advantages and disadvantages of food processing.
  - Define HACCP. Mention its principles.
  - Discuss the factors influencing location and site selection for a food plant.
4. Long answers type questions (*Any one*) :  $10 \times 1 = 10$
- Elaborate on the various traditional and modern methods of food processing.
  - Explain in detail the principles, importance, and steps in designing a food plant layout.
  - Explain the process of becoming an entrepreneur - from idea generation to business establishment.

- - - -