

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Discuss different types of mixing processes along with suitable applications.
- Q.24 Write about various types of filtration processes along with their applications in food industries
- Q.25 Discuss the membrane separation process with suitable example

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### 2nd Sem / Food Technology

### Subject : Unit Operations in Food Processing

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which process is used for the size reduction of milk fat in milk
- a) Mixing                      b) Filtering
- c) Homogenization      d) Blending
- Q.2 Magnetic sieving can be used for separating
- a) Rice from wheat      b) Iron from rice
- c) Water from sand      d) Ice from water
- Q.3 What is the principle behind centrifugation as a mechanical separation method?
- a) Difference in boiling points
- b) Difference in particle size
- c) Difference in density
- d) Difference in solubility

- Q.4 Melting process is the conversion of \_\_\_\_\_  
 a) Liquid to gas                      b) Ice to liquid  
 c) Ice to gas                              d) Gas to liquid
- Q.5 Which process is especially used for enzyme inactivation \_\_\_\_\_  
 a) Sterilization                      b) Blanching  
 c) Freezing                              d) None of these
- Q.6 In the hammer mill is the type of \_\_\_\_\_ equipment  
 a) Crushing                              b) Grinding  
 c) Cutting                                d) Cleaning

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Evaporation is a mass transfer process. (True/False)
- Q.8 The purpose of blanching and pasture is the same (True/False)
- Q.9 Name two cleaning equipment used in food industries are \_\_\_\_\_ and \_\_\_\_\_
- Q.10 Distillation helps in different types of solvent based on boiling point (True/False)

- Q.11 Thawing process occurs during the melting of ice (True/False)
- Q.12 BIS stands for \_\_\_\_\_

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write about any four types of size reduction equipment.
- Q.14 Discuss the advantages and limitations of the drying process.
- Q.15 Explain theories of distillation.
- Q.16 Discuss the application of the mixing process in food industries.
- Q.17 Mention criteria for selecting cleaning methods.
- Q.18 Explain the working principle of magnetic separators
- Q.19 Write about the extraction process with one example
- Q.20 Elaborate different types of separation process used in food processing
- Q.21 Write the working principles of the gyratory grinder.
- Q.22 Discuss the process of freezing.