

- Q.18 Explain working principle of cream separators
- Q.19 Demonstrate distillation process with one example
- Q.20 Discuss different types of screens used in sieving process
- Q.21 Write applications of cyclone separators.
- Q.22 Discuss the process of crystallization.

### **SECTION-D**

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

- Q.23 Discuss different types of distillation process along with their application in food industries
- Q.24 Describe various types of filtration process along with their applications in food industries
- Q.25 Discuss different types of crystallizers and their application in food industries.

No. of Printed Pages : 4  
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221125

## **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 The process of breaking down of solid material through the application of mechanical forces is called  
a) Centrifugation      b) Filtering  
c) Size reduction      d) Agitation
- Q.2 \_\_\_\_\_ separates contaminants / foreign materials from the raw materials  
a) Cleaning      b) Sorting  
c) Dicing      d) Slicing
- Q.3 Which of the following is the dry-cleaning method?

- a) Aspiration
- b) Ultrasonic cleaning
- c) Fluming
- d) Spraying

- Q.4 Mixing of two fluids is a
- a) Reversible process
  - b) Irreversible process
  - c) Isothermal process
  - d) None of these
- Q.5 Sorting separates the raw materials into the categories of different
- a) Physical characteristics
  - b) Quality characteristics
  - c) Both a and b
  - d) None of the above

- Q.6 In case of ball mill, the solid particles are reduced in size by
- a) Compression
  - b) Attrition
  - c) Impact
  - d) Vibration

## SECTION-B

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

- Q.7 Homogenization is a type of size reduction process  
(True/False)

(2)

221125

- Q.8 Grading and sorting are the same processes  
(True/False)
- Q.9 Name two mixers used in juice industries are \_\_\_\_\_ and \_\_\_\_\_
- Q.10 Sieving process helps in removing oil from oilseed  
(True/False)
- Q.11 Crystallization process occurs during the preparation of jaggery  
(True/False)
- Q.12 Distillation is type of membrane processing  
(True/False)

## SECTION-C

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

- Q.13 Describe different cleaning methods
- Q.14 Discuss advantages and limitations of size reduction process
- Q.15 Explain theories of filtrations
- Q.16 Discuss the application of mixing process in food industries.
- Q.17 Mention criteria for size reduction equipment

(3)

221125