

- Q.25 Write a short note on dry cleaning in food industry
- Q.26 Discuss the process of color sorting of grains.
- Q.27 Write effects of size reduction on sensory characteristics and nutritional quality of food?
- Q.28 Define the terms agitation and kneading.
- Q.29 Discuss the difference between simple and fractional distillation.
- Q.30 Write the aims and advantages sorting of food.
- Q.31 Discuss the role of settling zone and inlet zone in sedimentation tank.
- Q.32 Write a note on filter aid filtration.
- Q.33 Write difference between micro filtration and ultra filtration.
- Q.34 Write a note on tumbler mixer?
- Q.35 Give the role condenser in distillation and seeding in crystallization.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Define crystallization. Enlist different crystallizer and explain work of any one of them with diagram.
- Q.37 Write note on Disc attrition mill and ribbon blender.
- Q.38 Explain principle and equipment used for size reduction of fibrous food.

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Roll No.

3rd Sem / Branch : Food Technology
Subject:- Unit operation in food processing/Principles of Food Engg.

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following is type of agitator?
- a) Anchor type b) Propeller type
- c) Both a & b d) None
- Q.2 Which of the following is type of sorting method?
- a) Color b) Shape
- c) Size d) All of the above
- Q.3 Which of the following is not a type of separation process?
- a) Blanching b) Distillation
- c) Screening d) Filtration
- Q.4 During size reduction process temperatures _____
- a) Increases b) Decreases
- c) Same d) None of the above
- Q.5 Which of the following affects the effectiveness of screen?

- a) Moisture b) Feed rate
c) Both a & b d) None of the above
- Q.6 A ball mill uses _____
a) Impact
b) Attrition
c) Both a & b
d) None of the mentioned
- Q.7 Which of the following is NOT a method used for size reduction?
a) Cutting b) Burning
c) Impact d) None of the above
- Q.8 What happens in attrition mode?
a) Blades are used for size reduction
b) Forceful objects strikes the stationary object
c) Force is applied by the means of hammer
d) Rubbing the material between two surfaces
- Q.9 Screen capacity is expressed in terms of _____?
a) Tons/hr b) Tons/ft²
c) Tons d) Tons/hr-ft²
- Q.10 What do you mean by filter cake?
a) A suspension to be filtered
b) A porous membrane used to retain the solids
c) The solids which are present on the filter
d) A clear liquid passing through the filter

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write full form of PSD.
- Q.12 Enlist any two size reduction equipment.
- Q.13 Give name of any two wet cleaning methods.
- Q.14 Grizzly screens use a series of cascading grizzly bars to turn over material separate the material by size into course and fines. (True/False)
- Q.15 _____ is the process in which a liquid is vaporized, recondensed and collected in a container.
- Q.16 U.S. Mesh Size is defined as the number of openings in _____ square inch of a screen. (One/Five)
- Q.17 In screening process, separation is performed on the basis of _____.
- Q.18 Write any two advantages of wet cleaning.
- Q.19 Give name of any two crystallizers.
- Q.20 Define food engineering.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Draw a neat and clean diagram of jaw crusher.
- Q.22 Write a note on sedimentation?
- Q.23 Write a brief note on steam distillation.
- Q.24 What do you mean by Homogenization?