

- Q.29 What are the various machine parameters that affect pulse milling output?
- Q.30 Explain the solvent extraction process in brief.
- Q.31 Write down various advantages of parboiling.
- Q.32 How to minimize the breakage of rice in rice mill?
- Q.33 Differentiate between oil extraction and oil expression.
- Q.34 Write down various steps in Wheat milling process.
- Q.35 Describe various animal feeds and source of their raw material.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain in detail the layout and plan of animal feed plant.
- Q.37 Write a short note on any two of the following:
- Indented cylinder
 - Pneumatic separator
 - Disc separator
- Q.38 Explain various unit operations of a flour mill. Draw the layout and flow diagram of a flour mill.

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 Sub. : Agro Process Engineering**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Elevator shift the materials
- At an angle
 - Vertical
 - Both A & B
 - Horizontal
- Q.2 Delinting of cotton seed may be done with
- Sodium hydroxide
 - Citric acid
 - Sulphuric acid
 - Ammonium
- Q.3 Magnetic separator make separation of grains on the basis of
- Specific gravity
 - Surface texture
 - Roundness
 - Relative length
- Q.4 Specific contaminant removal from the seed involves:
- Separating
 - Cleaning
 - Grading
 - Storage
- Q.5 Classification of cleaned grain into various fractions is called
- Cleaning
 - Grading
 - Sorting
 - Separating

- Q.6 The process of removing bran layer from paddy kernel is called.
a) Dehusking b) Whitening
c) Policing d) None of these
- Q.7 Mostly the solvent used in oil extraction unit is
a) Nepthene b) N-Hexane
c) n-haptance d) All of these
- Q.8 Soaking of paddy in hot or cold water before paddy/milling is known as
a) Dehusking b) Whitening
c) Parboiling d) Polishing
- Q.9 Yield of oil in extraction process as compare to expression process is:
a) Higher b) Lower
c) Optimum d) None of these
- Q.10 The clearance between rubber roller in rubber roller sheller
a) Equal to paddy thickness
b) Smaller than paddy thickness
c) Greater than paddy thickness
d) None of these

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 Define Grading.
Q.12 CFTRI stands for _____.

- Q.13 Name any two bi-products of rice mill.
Q.14 Reduction of food grain into various end products is called _____.
Q.15 Mechanically pressing liquid out of liquid containing solid is called _____ process.
Q.16 Define Storage.
Q.17 Define Packaging.
Q.18 The putting a product into a package is called _____.
Q.19 Define Delinting of cotton seed.
Q.20 Define parboiling of rice.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$
- Q.21 What are various steps in seed processing?
Q.22 Explain the kisan continuous method of paddy parboiling.
Q.23 Describe the working of hydraulic press machine in oil mill.
Q.24 Explain the acid delinting of cotton seeds.
Q.25 Explain the principle and working of Specific gravity separator.
Q.26 Explain the principle of operation of rubber roller sheller.
Q.27 Describe the wet milling process of pulse milling.
Q.28 Explain working principle jaw crusher.