

- Q.25 Explain the Dry Milling Process of Pulses.
 - Q.26 Write down various advantages of parboiling.
 - Q.27 Explain the acid delinting of cotton seeds.
 - Q.28 Describe various animal feeds and source of their raw material.
 - Q.29 How will you minimize the breakage of rice?
 - Q.30 Describe various steps in Wheat milling process.
 - Q.31 Write various steps in seed processing with flow diagram.
 - Q.32 Describe the principle and working of specific Gravity separator.
 - Q.33 What is the working principle of a vertical cone rice whitener.
 - Q.34 Describe the various utilization of the bi-product of rice mill.
 - Q.35 Explain the solvent extraction process in brief.

SECTION-D

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

- Q.36 Enlist different types of cleaners and graders? Explain the constructional detail and working principle of Spiral separator.

Q.37 What is seed processing? Explain the various steps followed in seed processing showing the flow diagram.

Q.38 Explain in detail the layout of Animal feed plant.

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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 Spiral separator separates the grains on the basis of:

 - a) Weight
 - b) Spherisity
 - c) Roundness
 - d) Size

Q.2 Classification of cleaned grain into various fractions is called

 - a) Separating
 - b) Grading
 - c) Storage
 - d) Cleaning

Q.3 In rubber roller sheller, the clearance between rubber roll is :

 - a) Smaller than paddy thickness
 - b) Equal to paddy thickness
 - c) Greater than paddy thickness
 - d) None of these

Q.4 Delinting of cotton seed may be done with

 - a) Ammonium chloride
 - b) Citric acid
 - c) Sulphuric acid
 - d) Sodium hydroxide

- Q.5 The putting a product into a package is called
a) Blending b) Storage
c) Sorting d) Packaging
- Q.6 The process of removing bran layer from rice kernal is called:
a) Dehusking b) Separating
c) Whitening d) None of these
- Q.7 In CFTRI method the water is heated to a temperature of:
a) 80°C b) 85°C
c) 75°C d) 70°C
- Q.8 In which position elevator shift the materials.
a) At an angle b) Vertical
c) Horizontal d) All of these
- Q.9 Separating liquid from a liquid solid system with the use of solvent is called
a) Expression b) Extraction
c) Both A & B d) None of these
- Q.10 The shelling of paddy by centrifugal dehusker is due to:
a) Impact b) Shear
c) Rubbing d) Crushing

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The removal of few large particles in an initial process is called _____.
Q.12 Define Blending.
Q.13 Name of any two mechanical expression devices.
Q.14 Extraction process gives _____ yields of oil as compare to expression.
Q.15 Define Parboiling of rice.
Q.16 Mechanically pressing liquid out of liquid containing solid is called _____ process.
Q.17 Define Seed treatment.
Q.18 A whole rice kernel is called Brown Rice. (True/False)
Q.19 Define Packaging.
Q.20 A whole rice kernel is called Brown Rice. (True/False)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write a short note on Chain conveyor with diagram.
Q.22 Differentiate between oil extraction and oil expression.
Q.23 Describe the Kisan continuous method of parboiling.
Q.24 Describe various animal feeds and source of their raw material.