

- Q.30 Explain the Dry Milling Process of Pulses. (CO3)
- Q.31 What are the various utilization of the by-product of rice mill. (CO2)
- Q.32 Describe the working principle of hydraulic press used for oil. (CO5)
- Q.33 Write down various steps in Wheat milling process. (CO4)
- Q.34 Explain the principle of operation of under runner disc shellers. (CO2)
- Q.35 Differentiate between oil extraction and oil expression. (CO5)

#### Section-D

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

- Q.36 Describe various steps in seed processing and flow diagram showing various steps in processing. (CO1)
- Q.37 Describe various components their operation and performance of wheat mill. (CO4)
- Q.38 Write a short note on any two of the following : (CO1)
- Air screen cleaner-cum-grader
  - Pneumatic separator
  - Inclined draper and belt type eletrostatic separator.

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### 5th Sem., Branch : AGRI ENGG. Subject : Agro Process Engineering

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 Seed cleaning involve cleaning of (CO1)
- Dirt
  - Stone
  - Other crop seed
  - All of these
- Q.2 Delinting of cotton seed may be done with (CO1)
- Citric acid
  - Sulphuric Acid
  - Sodium hydroxide
  - Ammonium chloride
- Q.3 Disc separator separates materials on the basis of : (CO1)
- Length
  - Width
  - Weight
  - Shape
- Q.4 Conveyors shift the materials in \_\_\_\_\_ position. (CO1)
- Horizontal
  - Vertical
  - At an angle
  - All of these
- Q.5 In single boiling method, paddy is soaked in water for : (CO2)
- 12-24 hours
  - 24-28 hours
  - 24-72 hours
  - 48-72 hours

- Q.6 The process of removal of bran layer is called \_\_\_\_\_ process. (CO2)  
 a) Dehusking                      b) Whitening  
 c) Hulling                          d) Separating
- Q.7 Densification of wheat straw is to (CO6)  
 a) Increase density              b) Decrease density  
 c) Decrease weight              d) Increase weight
- Q.8 Which is not size reduction method? (CO4)  
 a) Crushing                        b) Cutting  
 c) Separating                      d) Shearing
- Q.9 The putting a product into a package is called (CO4)  
 a) Blending                        b) Packaging  
 c) Polishing                        d) Storage
- Q.10 In oil extraction unit, the most commonly used solvent is: (CO5)  
 a) n-hexane                        b) n-heptane  
 c) Nepthene                        d) All are correct

#### Section-B

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

- Q.11 Parboiling is done to minimize the breakage of rice during milling. (True/False) (CO2)
- Q.12 Define Blending. (CO4)
- Q.13 CFTRI stands for \_\_\_\_\_. (CO2)
- Q.14 Define conditioning. (CO4)
- Q.15 Name any two animal feed. (CO6)

- Q.16 Define expression process. (CO5)
- Q.17 Extraction process gives \_\_\_\_\_ yields of oil as compare to expression. (Higher/Lower) (CO5)
- Q.18 What do you mean by parboiling? (CO2)
- Q.19 Define milling process. (CO3)
- Q.20 Define whitening. (CO2)

#### Section-C

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

- Q.21 Explain the kisan continuous method of paddy parboiling. (CO2)
- Q.22 What is the need of densification of straw? (CO6)
- Q.23 What are the various machine parameters that affect pulse milling out turn. (CO3)
- Q.24 Describe paddy grain Structure. (CO2)
- Q.25 Explain the principle and working of specific gravity separator. (CO1)
- Q.26 Describe the working of a vertical cone rice whitener. (CO2)
- Q.27 What are different types of animal feeds and source of their raw material? (CO6)
- Q.28 Describe the batch type solvent extraction process in brief. (CO5)
- Q.29 Write different methods of minimize the breakage of rice. (CO2)