

- Q.26 Describe the Sodium chromate method of parboiling  
 Q.27 Explain the any one method of delinting of cotton seeds.  
 Q.28 Write down various steps in Wheat milling process.  
 Q.29 Describe the principle and working of pneumatic separator.  
 Q.30 Suggest the methods to minimize the breakage of rice.  
 Q.31 Describe various animal feeds and source of their raw material.  
 Q.32 Describe the important unit operations of pulse milling.  
 Q.33 Explain the grinding machines used in making various animal feed.  
 Q.34 Explain the Wet Milling Process of Pulses.  
 Q.35 Give various Parameters that affect pulse milling out turn.

#### **SECTION-D**

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

- Q.36 Explain any five types of cleaners and graders used in processing of cereals, Pulses and cotton.  
 Q.37 Describe in detail the layout of animal feed plant  
 Q.38 What are different unit operations of an oil mill? Explain the mechanical expression of oil.

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**5th Sem / Agri**  
**Subject:- 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 material in \_\_\_\_\_ position.  
 a) At an angle                                b) Horizontal  
 c) Both                                        d) None  
 Q.2 Magnetic separator make separation of grains on the basis of:  
 a) Specific gravity                        b) Surface texture  
 c) Roundness                                d) Relative length  
 Q.3 During milling breakage can be minimized by  
 a) Proper storage  
 b) Optimum Harvest time  
 c) Constant feed rate  
 d) All of these  
 Q.4 Factor effecting the pulse milling out-turn:  
 a) Machine parameters                    b) Grain parameters  
 c) Both (a) and (b)                        d) None of these  
 Q.5 Which of the method, the separation of bran without loss of endosperm is possible?

- a) Parboiling rice method
  - b) Raw rice milling
  - c) Both (a) and (b)
  - d) None of these
- Q6 The most commonly used solvent in oil extraction unit is
- a) Nepthene
  - b) n-hexane
  - c) n-haptane
  - d) All of these
- Q7 Which of the following rice cooks more flaky?
- a) Raw rice
  - b) Parboiled rice
  - c) Both (a) and (b)
  - d) None of these
- Q8 Extraction process gives \_\_\_\_\_ yields of oil as compare to expression
- a) Higher
  - b) Lower
  - c) Optimum
  - d) None of these
- Q9 The shape of paddy soaking tank in kisan contineous parboiling method is \_\_\_\_\_
- a) Pentagonal
  - b) Hexagonal
  - c) Optagonal
  - d) None of these
- Q10 Which method is not a size reduction method.
- a) Cutting
  - b) Shearing
  - c) Crushing
  - d) Separating

### **SECTION-B**

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

- Q11 Name any two oil expression devices.

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- Q.12 Parboiled rice takes more time to cook than raw rice. (True/False)
- Q.13 Mechanically pressing liquid out of liquid containing solid is called \_\_\_\_\_ process.
- Q.14 Write the full form of RPEC
- Q.15 Name the acid used for Delinting of cotton seeds.
- Q.16 Classification of cleaned grain into various fractions is called \_\_\_\_\_.
- Q.17 What do you mean by Blending.
- Q.18 A whole rice kernel is called Brown Rice. (True/False)
- Q.19 The process of removal of bran layer from rice kernel is known as \_\_\_\_\_
- Q.20 Define Packaging.

### **SECTION-C**

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Draw the flow diagram of seed processing showing the various steps in processing.
- Q.22 Describe the working of Horizontal abrasive rice whitener.
- Q.23 Describe the concept of solvent extraction process in brief.
- Q.24 Write down various advantages of parboiling
- Q.25 Explain the principle of operation of rubber roller sheller.

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