

- 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.

No. of Printed Pages : 4

180152/120152/030152

Roll No. ....

**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
- Q.6 The most commonly used solvent in oil extraction unit is
- a) Nephthene                      b) n-hexane
  - c) n-haptane                      d) All of these
- Q.7 Which of the following rice cooks more flaky?
- a) Raw rice                      b) Parboiled rice
  - c) Both (a) and (b)              d) None of these
- Q.8 Extraction process gives \_\_\_\_\_ yields of oil as compare to expression
- a) Higher                      b) Lower
  - c) Optimum                      d) None of these
- Q.9 The shape of paddy soaking tank in kisan contineous parboiling method is \_\_\_\_\_
- a) Pentagonal                      b) Hexagonal
  - c) Optagonal                      d) None of these
- Q.10 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)

- Q.11 Name any two oil expression devices.

- 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 Delintig 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.