

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain in detail the layout and plan of seed processing plant. (CO-1)

Q.24 Describe various machines used in animal feed plant in detail. (CO-6)

Q.25 What are different unit operations of an oil mill? Explain the mechanical expression of oil. (CO-5)

No. of Printed Pages : 4

Roll No.

220142

**4th Sem./Branch : Agri Engg.
Subject : Agro Process Engineering**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Objective of conditioning in pulse milling. (CO-3)
a) To loosen the husk b) To tighten the husk
c) To separate the husk d) None of these

Q.2 The screw conveyors are generally used to move grains: (CO-1)

- a) Vertically b) Horizontally
- c) At inclination d) All are correct

Q.3 In rubber roller sheller, the clearance between rubber roll is: (CO-2)

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

Q.4 Which is not size reduction method. (CO-4)
a) Crushing b) Cutting
c) Separating d) Shearing

Q.5 In acid delinting process the linters/fuzz are removed upto. (CO-1)

- a) 40%
- b) 60%
- c) 80%
- d) 100%

Q.6 Home-made drum mixer is a _____ type of seed treater. (CO-1)

- a) Commercial treater
- b) Farm treater
- c) Modern treater
- d) None of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Name any two by-products of rice mill. (CO-2)

Q.8 Define seed processing. (CO-1)

Q.9 The separation of grain in magnetic separator is carried out on the basis of _____ (CO-1)

Q.10 Define oil extraction process. (CO-5)

Q.11 Define blending. (CO-4)

Q.12 Densification is done to _____ the density of wheat straw. (Increase/Decrease) (CO-6)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 List various steps in seed processing with flow diagram. (CO-1)

Q.14 Explain the Dry Milling Process of Pulses. (CO-3)

Q.15 Explain the acid delinting of cotton seeds. (CO-1)

Q.16 Describe paddy grain structure. (CO-2)

Q.17 Differentiate between oil extraction and oil expression. (CO-5)

Q.18 Describe the principle and working of Magnetic separator. (CO-1)

Q.19 What are the various machine parameters that affect pulse milling out turn? (CO-3)

Q.20 Explain the principle of operation of under runner disc shellers. (CO-2)

Q.21 Explain the working principle of Bucket Elevator with a neat diagram. (CO-1)

Q.22 Describe the working of a Horizontal rice whitener. (CO-2)