

- Q.27 Describe the dry milling process of pulse milling.
 Q.28 Differentiate between oil extraction and oil expression.
 Q.29 What are the various machine parameters that affect pulse milling out turn?
 Q.30 Explain the solvent extraction process in brief.
 Q.31 Explain the principle of operation of vertical cone rice whitener.
 Q.32 Explain working principle jaw crusher.
 Q.33 Describe the principle and working of magnetic separator.
 Q.34 How to minimize the breakage of rice in rice mill?
 Q.35 Write a short note on utilization of by-product of rice mill.

SECTION-D

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

- Q.36 Explain in detail the layout and plan of seed processing plant.
 Q.37 Describe the various machines used for making the animal feed from feed ingredients.
 Q.38 Explain various unit operations of a wheat mill.
 Draw the flow diagram of a flour mill.

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5th Sem. / Agri. Engg.

Subject:- Agro Process Engineering

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The removal of few large particles in an initial process is:
 a) Cleaning b) Scalping
 c) Grading d) Sorting
 Q.2 The putting a product into a package is called
 a) Packaging b) Blending
 c) Storage d) Polishing
 Q.3 Oil seed cakes are obtained by _____
 a) Solvent extraction b) Mechanical pressing
 c) Both of these d) None of these
 Q.4 Specific contaminant removal from the seed involves
 a) Separating b) Cleaning
 c) Grading d) Storage
 Q.5 Objective of conditioning in pulse milling
 a) To loosen the husk b) To tighten the husk
 c) To separate the husk d) None

Q.6 The process of removing bran layer from paddy kernel is called:

- a) Dehusking
- b) Whitening
- c) Policing
- d) None of these

Q.7 The total quantity of head rice plus broken of all kind after milling is _____

- a) Degree of milling
- b) Milled rice
- c) Milling yield
- d) None of these

Q.8 The clearance between rubber roller in rubble roller sheller

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

Q.9 Classification of cleaned grain into various fraction is called

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

Q.10 Separation of grains by Spiral separator is made on the basis of:

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

SECTION-B

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

Q.11 Name any two bi-products of rice mill.

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Q.12 The soaking of paddy in hot or cold water before paddy milling is known as _____

Q.13 Classification of cleaned grain into various fractions is called _____

Q.14 Reduction of food grain into various end products is called _____

Q.15 Mechanically pressing liquid out of liquid containing solid is called _____ process.

Q.16 Define Storage.

Q.17 Name any two oil expression devices.

Q.18 The putting a product into a package is called _____.

Q.19 Define Delinting of cotton seed.

Q.20 Separating liquid from a liquid solid system with the use of solvent is called.

SECTION-C

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

Q.21 Describe in brief the paddy grain structure.

Q.22 Explain the CFTRI method of paddy parboiling.

Q.23 Describe the working of screw press machine in oil mill.

Q.24 Explain the acid delinting of cotton seeds.

Q.25 Explain the principle and working of air screen cleaner-cum-grader.

Q.26 Explain the principle of operation of under runner disc sheller.

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