

- Q.29 How the space requirement in bag storage is determined?
- Q.30 Describe the principles of operations of deep bed dryer.
- Q.31 Differentiate between contact and convective drying.
- Q.32 What do you understand by the Bag and Bulk storage of cereals and pulses.
- Q.33 Enlist various frictional properties of agricultural material, also define the angle of repose with sketch.
- Q.34 Write the different losses during storage of grains and how will you control them?
- Q.35 Describe the factors affecting the storage of fruits and vegetables

SECTION-D

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

- Q.36 Describe in detail the different types of domestic grain storage structures being used in India.
- Q.37 Define packaging. Also describe various types of packaging materials.
- Q.38 Explain the working of different material handling equipments in details.

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**4th Sem / Agri
Subject:- Post Harvest Technology**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Selection of Irrigation method is affected by
 a) Source of water b) Type of soil
 c) Crops d) All of the above
- Q.2 Major role of inter-cultivation tillage is
 a) Enhancement of soil aeration
 b) Improvement of soil texture
 c) Weed control
 d) Improvement in soil structure
- Q.3 Agronomy is the branch of agriculture which deals with
 a) Field crops b) Vegetable crops
 c) Bee keeping d) None of these
- Q.4 Separating liquid from a liquid solid system with the use of solvent is called
 a) Extraction b) Expression
 c) crushing d) None of these
- Q.5 Which is not a cereal crop
 a) Oats b) Gram
 c) Barley d) Wheat

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- Q.6 Moisture migration takes place in stored grain due to
 a) Quantity of storage b) Storage structure
 c) Temperature change d) None of these
- Q.7 The insect which depends upon other insects are called
 a) Minor b) Major
 c) Parasites d) None of these
- Q.8 Which not a secondary tillage equipment?
 a) Harrows b) Cultivators
 c) Planks d) Disc plough
- Q.9 Which one of the nutrients is fixed by the leguminous crops in the soil
 a) Phosphorus b) Nitrogen
 c) Potassium d) Calcium
- Q.10 Major Crop of Haryana state is
 a) Wheat b) Mustard
 c) Cotton d) Maize

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The process of loosening and turning the soil is called _____.
- Q.12 Name any two secondary tillage equipment.
- Q.13 Define Chilling.
- Q.14 Which nutrient is supplied by Urea.
- Q.15 Mechanically pressing liquid out of liquid containing solid is called _____ process.

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- Q.16 The artificial method of irrigation similar to rainfall is _____
- Q.17 Define Expelling.
- Q.18 When temperature decreases and relative humidity of air increases the grain will _____ the moisture content.
- Q.19 On slopy land, the best cropping system to be followed is _____.
- Q.20 Angle of repose is a _____ property of agricultural material.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Describe any four post-harvest operations of agricultural material.
- Q.22 Discuss the scope of Post-Harvest Technology in modern scenario.
- Q.23 Represent the moisture content of grains on wet and dry bases.
- Q.24 Write a note on continuous flow drying system.
- Q.25 Describe various types of insects that affect the stored grains.
- Q.26 Write different storage conditions for fruits and vegetables.
- Q.27 Describe the modern storage structure.
- Q.28 What are the different factors affecting the drying of Cereals and Pulses?

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