

- Q.29 Assess the space requirement of bag storage structure.
- Q.30 Explain any two modern storage structure.
- Q.31 What are the different factors affecting the drying of cereal and pulses?
- Q.32 What are the need and importance of Post-Harvest Technology?
- Q.33 Differentiate between tray and tunnel dryer.
- Q.34 Differentiate thermal conductivity and thermal diffusivity of agricultural products.
- Q.35 Describe the losses during the storage of cereals and pulses and their control.

#### SECTION-D

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

- Q.36 Explain the various post-harvest operations of agricultural products and their utility in agricultural processing.
- Q.37 Enlist different types of dryers. Explain in details the working principle of Deep bed dryer.
- Q.38 What are the different types of grain storage structures? Discuss their management in detail.

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Roll No.....

**Branch : AGRI Engg.**  
**Subject : Post Harvest Technology**

**Time : 3 Hrs.**

**M.M. : 100**

#### SECTION-A

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

- Q.1 The insect which follow the destruction already started by the major insect is known as  
 a) Major b) Minor  
 c) Incidental d) Parasite
- Q.2 During harvesting the faulty tools \_\_\_\_\_ the quantity of fresh produce.  
 a) Protect b) Damage  
 c) Maintain d) None of these
- Q.3 Proper post harvest cooling can  
 a) Slow the growth of decay  
 b) Increase the decay  
 c) Both A & B  
 d) None of these
- Q.4 Which of the following is not post-harvest operation  
 a) Sowing b) Grading  
 c) Storage d) Milling
- Q.5 A good storage structure should provide/permit the  
 a) Fumigation b) Aeration  
 c) Easy inspection d) All of these

- Q.6 A bin whose relative dimensions are such that the plane of rupture meets the grain surface before it strikes the opposite side is called
- Deep bin
  - Shallow bin
  - Mud bin
  - None of these
- Q.7 Scope of the post harvest technology
- Export earning
  - Increase food supply
  - Employment generation
  - All of these
- Q.8 Removal of excess moisture content from the grain is called
- Milling
  - Storage
  - Drying
  - Separation
- Q.9 Kinetic friction is a \_\_\_\_\_ property of agricultural material.
- Mechanical
  - Physical
  - Frictional
  - Thermal
- Q.10 The solid particle of grains are cut or broken into smaller pieces in
- Expelling
  - Drying
  - Shorting
  - Size reduction

### SECTION-B

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

- Q.11 The property of gaining or losing of moisture as per atmospheric conditions is known as \_\_\_\_\_.
- Q.12 Define storage.

- Q.13 When temperature decreases and relative humidity of air increases the grain will \_\_\_\_\_ the moisture content.
- Q.14 Define Extraction.
- Q.15 What is cool chain?
- Q.16 Quantity of water present in any product is called \_\_\_\_\_.
- Q.17 Define Milling of grains.
- Q.18 Define Drying of grains.
- Q.19 What do you mean by scalping?
- Q.20 Define specific Gravity.

### SECTION-C

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

- Q.21 Enlist different packaging materials of fruits and vegetables.
- Q.22 Write a note on Solar drying system.
- Q.23 Differentiate between Expelling and Extraction.
- Q.24 Describe the Infra-red method of moisture content determination.
- Q.25 What do you understand by Sun drying and Artificial drying.
- Q.26 Compare the Bag and Bulk storage of cereals and pulses.
- Q.27 Explain the working principle of Bucket Elevator with a neat diagram.
- Q.28 Describe the terminal velocity and angle of repose of the grains.