



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech.(Food Engg.) 2015 Admission**  
**VII Semester Final Examination-January 2019**

**Fdpr.4107**

**Storage and Preservation Technology (1+1)**

**Marks: 50**  
**Time: 2 hours**

- I Fill in the Blanks (10x1=10)**
- 1 A grain bin is referred to as a \_\_\_\_\_ bin when depth of grains is less or equal to equivalent diameter.
  - 2 In a deep bin, depth of grain is greater than \_\_\_\_\_.
  - 3 Methl bromide, malathion and phosphine are \_\_\_\_\_.
  - 4 The dust produced from the harvesting, drying, handling, storage or processing of grains is called \_\_\_\_\_.
  - 5 One time modification of gaseous environment is carried out in \_\_\_\_\_.
- State True or False**
- 6 Continuous modification of gaseous environment is carried out in modified atmosphere.
  - 7 The radura symbol is mandatory in the label of organic foods.
  - 8 Irradiation inhibits sprouting in onion and potatoes.
  - 9 Fumigants are chemicals which act on the insect and other pests in gaseous state.
  - 10 The rapid reduction of field temperature prior to processing, storage, or refrigerated transport is known as precooling.
- II Write Short notes on any FIVE of the following (5x2=10)**
- 1 What is Dunnage? List the materials used for the same.
  - 2 Open bulk storage is preferred over bag storage. Give reason.
  - 3 Aeration.
  - 4 Requirements of an Ideal storage facility.
  - 5 Salient features of evaporative cooling.
  - 6 Benefits and demerits in cooling produce before packing.
  - 7 Methods of dehydration.( Any four)
- III Answer any FIVE of the following. (5x4=20)**
- 1 Techniques used for Insect control.
  - 2 Improvements which can be made to the Underground pit storage.
  - 3 Different Losses caused by insects.
  - 4 Merits and demerits of Food Irradiation.
  - 5 Hermetic Storage.
  - 6 Cover and Plinth Storage.
  - 7 Major causes of food deterioration.
- IV Write an essay on any ONE of the following (1x10=10)**
- 1 Factors affecting storage of grains.
  - 2 Controlled and modified atmosphere storage of grains.

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