



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.
