

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2012 Admission

VIIth Semester Final Examination-January -2016

Cat. No: Fdpr 4107

Title: Storage and Preservation Technology (1+1)

Marks: 80.00

Time: 3 hours

I Fill up the blanks/State True or False

(10 x 1=10)

1. The relationship between EMC and RH for biological materials is given by equation
2. Janssen formula is used to determine the lateral pressure in bins
3. An example for solid fumigant is
4. The capacity of bukhari storage is
5. During the winter season, if the grains are stored in cylindrical bin, the moisture condenses on the

Define the following

6. Storage
7. Squat silo
8. Bunker Storage
9. Fumigation
10. Respiration quotient

(10 x 3=30)

II Answer any ten questions

1. What are the causes for spoilage in perishables and durables?
2. Classify the storage structures based on the principle of operation
3. Differentiate between deep bin and shallow bin
4. Differentiate between internal and external friction
5. Differentiate between bag and bulk storage
6. Explain in brief about evaporative cooling
7. Write in brief about the gases used in MAP
8. What are the factors influencing the bacterial growth?
9. Write about the rat control measures
10. What are the requirements of good storage structures?
11. Explain the different types of damages for grains
12. What are the steps involved in fumigation?

(6 x 5=30)

III Answer any Six questions

1. Explain irradiation method of storage in detail
2. Explain about the modified atmospheric storage of grains
3. What are the changes occurring during the ripening of the fruits?

4. Explain factors to be considered in selection of site for construction of a grain godown?
5. Describe in brief about the low temperature storage
6. Explain the different types of temperature and moisture changes in storage structures
7. Explain in detail about silo design
8. What are the benefits of aeration?

IV Answer any one question

(1 x 10=10)

1. Explain the different methods of preservation of dehydrated products of fruits and vegetables
2. Explain in brief about the PUSA bin and CAP storage structure with a neat sketch
