

10.11.12

42

Reg.No:

--	--	--	--	--	--	--	--	--	--

B.E. (Full Time- Arrear) Degree End Semester Examination Nov/ Dec- 2012
B.E – Agricultural and Irrigation Engineering
Semester- VI
AI 9029 POST HARVEST TECHNOLOGY

Time : 3 hrs

Regulation – 2008
Answer all the Questions

Max.Marks : 100

PART-A

10*2=20 marks

1. Define Fineness Modulus and Uniformity Index.
2. What are the nature and principal causes of post harvest losses?
3. Define Psychometry
4. Define moisture content in dry and wet basis and establish the relationship between them.
5. How to determine the effectiveness of a grain separator?
6. Differentiate seed processing and seed treatment
7. What is meant by parboiling of rice and list the 3 basic steps involved in it.
8. What are the steps involved in milling of wheat?
9. What are the types of mills?
10. Define Controlled and modified atmospheric storage.

PART-B

5*16=80 marks

11. i. Explain the importance of physical and mechanical properties in post harvest technology(8)
ii. What are the objectives of Post harvest Engineering and list some of the post harvest losses of agricultural commodities. (8)
12. a. Explain with a neat diagram about the types of threshers
(OR)
12. b. What is thin layer and deep layer drying? Explain briefly about the types of dryers with a neat sketch.
13. a. Write a detailed note on the types of separator. Use a neat sketch wherever is applicable.
(OR)
- 13.b. Explain in detail about the steps involved in seed processing with a neat sketch of layout of a seed processing unit

14. a. With a help of the sketch of layout of modern rice mill explain the components and their respective function.

(OR)

14.b. i. What is Paddy dehusking? Explain the methods available for dehusking of paddy.(8)

ii. Explain the steps involved in processing of pulses (8)

15. a. Explain the types of Conveyors used in material handling with a neat sketch

(OR)

b. i. What are the conditions for safe storage of food grain? (4)

ii. Explain briefly the types of storage units with a neat sketch.(12)