

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food. Engg) 2014 Admission
IIIrd Semester Final Examination-January -2016

Cat. No: Fden.2104

Marks: 50.00

Title: Crop Processing Engineering (2+1)

Time: 2 hours

I Fill up the blanks

(10 x 1=10)

1. Moisture content of paddy at the time of milling should be in the range _____
2. In rubber roll sheller the rollers rotate in _____ direction
3. The percentage of husk received from paddy is _____ per cent
4. LSU type dryer was developed in _____
5. Spiral separator is used for separating _____
6. Specific gravity separator is used to separate _____
7. The percent of edible oil in rice bran is about _____ per cent
8. The bulk density of paddy is approximately is _____ kg/m³
9. The recommended air flow rate in deep bed drier is _____ m³/min-ton
10. Screw conveyor is used to convey materials in _____ direction

II Write short notes on any Five questions

(5 x 2=10)

1. Whitening of rice
2. Tunnel drier
3. Screw conveyor
4. Constant rate period of drying
5. Parboiling
6. Pneumatic conveyor and Pneumatic separator
7. Attrition mill

III Write short essay on any FIVE questions

(5 x 4=20)

1. Explain direct method of moisture measurement
2. Discuss wheat milling operation with help of flow diagram
3. Explain working of a rubber roll sheller
4. What is pressure parboiling? Give its merits and demerits
5. Explain wet and dry milling of pulses
6. Explain working of a hammer mill with neat sketch
7. Write a note on extruded products

IV Write essay on any ONE

(1 x 10=10)

1. Discuss various equipments used in materials handling
2. Explain principle of communication and equipments used for coarse and fine grinding