

# KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg) 2013 Admission

IV<sup>th</sup> Semester Final Examination-June/July -2015

Cat. No: Phpt.2203

Title: Crop Process Engineering (2+1)

Marks: 50.00

Time: 2 hours

I Define

(10 x 1=10)

1. Structure of paddy
2. Shelling efficiency
3. Rittenger's law
4. Expanded rice
5. Reduction rolls in wheat milling
6. Conditioning of wheat
7. Nutritive value of pulses
8. Hydrogenation
9. Hypobaric storage
10. Effectiveness of screen

II Write short notes on any FIVE questions

(5 x 2=10)

1. What is dry heat parboiling
2. Explain working of cone polisher
3. Enumerate various products from soya
4. Enumerate operations in canning of fruits
5. Write a note on attrition mill
6. Write a note on microwave heating
7. Write a note on chain conveyor

III Write short notes on any FIVE questions

(5 x 4=20)

1. Explain the working of Engleberg with neat sketch
2. Explain RPEC method of parboiling
3. Discuss briefly about wet milling of pulses
4. Enumerate various handing process and explain working of bucket elevator
5. Write a note on size reduction by hammer mill
6. Explain the principle and working of magnetic separator
7. Explain the principle and working of twin screw extruder

IV Write an essay on any ONE

(1 x 10=10)

1. Explain in detail various methods of precooling of fruits and vegetables
2. Enumerate the machineries used in modern rice mill and explain the principle and working of rubber roll sheller with neat sketch