

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg) Degree Programme 2014 Admission

IVth Semester-Final Examination-June/July-2016

Cat. No: Phpt.2203

Marks: 50

Title: Crop Process Engineering-1I (2+1)

Time : 2 hours

I. Answer all the questions

(10 x 1=10)

1. The estimated PHT losses for grain is around _____.
2. The bran content of paddy is _____.
3. The oil content of bran from raw paddy is _____.
4. The bran obtained from rubber roll sheller is pure (true/false).
5. Spiral separator works based on _____.
6. Name some solvents used in oil extraction.
7. Disc separator works based on _____.
8. For destoner prime mover is required (true/false).
9. During size reduction heat is generated (true/false).
10. The method used for coconut oil extraction is _____.

II Answer the following any FIVE

(5 x 2=10)

1. Pressure parboiling.
2. Cone polisher .
3. Dry method of pulse milling.
4. Screw type expeller.
5. Hammer mill.
6. Micro wave heating of foods.
7. Gravity separator.

III. Write short notes on ANY FIVE of the following

(5x 4=20)

1. Functioning of a pulse milling industry with a layout diagram.
2. Process of corn wet milling.
3. Different methods of pre-cooling.
4. Production procedure of animal feed from agrl wastes.
5. Hypo-baric storage of fruits.
6. Various types of bucket elevators.
7. Oil extraction using hydraulic press.

IV. Write essay on ANY ONE of the following

(1 x 10=10)

1. Explain the working of single and twin screw extruder with neat sketches.
2. Explain the process of micro wave heating of foods and list the advantages.
