



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Agrl. Engg.) 2023 & Previous Admissions
III Semester Final Examination – January 2025

Fape.2102

Post Harvest Engineering of Cereals, Pulses and Oil Seeds (2+1)

Marks: 50
Time: 2 hours

- I Fill in the blanks (10x1=10)**
1. The recommended belt speed of belt conveyor is ---to--- m/s.
 2. The bucket elevator can lift the materials between few meters to more than --- m.
- State True or False**
3. Bucket elevator is a very efficient device for the vertical conveyance of bulk grains.
 4. In belt conveyor toughing idlers with 20° through are used for conveying all kinds of bulk materials.
 5. Troughs of screw conveyor have different shapes.
 6. Flat belt idlers are used for granular materials having an angle of repose of not less than 35°.
 7. LSU dryer was developed at Louisiana state university.
 8. A belt conveyor is an endless belt operation between two pulleys.
 9. Pneumatic conveying is a continuous and flexible transportation method.
 10. The most common shapes of screw conveyor troughs is U-shaped.
- II Write short notes on ANY FIVE of the following (5x2=10)**
1. Sorting
 2. Weight sorting
 3. Cleaning
 4. Drying
 5. Parboiling
 6. Polishing
 7. De-germing
- III Answer ANY FIVE of the following (5x4=20)**
1. Briefly explain the steeping?
 2. What is wet milling method of corn?
 3. Briefly explain break sifting system in wheat milling.
 4. What do you know about modern method of parboiling (CFTRI)?
 5. What are the advantages of parboiling?
 6. Write the name and explain the equipment required for pulse processing.
 7. Define these terms used in pulse processing; Gram, Decortications/dehusking, Splitting of pulses, Milling of pulses, Dhal, Gota, Dust/chuni, Broken, Grading, Grading of dhal
- IV Write an essay on ANY ONE of the following (1x10=10)**
1. Methods and Principles of Food Processing.
 2. Capacity and Effectiveness of screens in detail.
