

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Sixth Semester**Agricultural Engineering***AI3601 - Post-Harvest Technology***Regulations - 2021**Duration : 3 Hrs**Maximum : 100 Marks***PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Write the common name for two crops in each cereal, pulses and oilseeds.	L2	1	2
2.	Draw a neat sketch of a rasp bar cylinder.	L2	1	2
3.	List the properties of psychrometry.	L1	2	2
4.	Define theory of drying.	L1	2	2
5.	Compare cylinder and spiral separator.	L2	3	2
6.	What is the purpose of spraying water on the screw conveyor of the magnetic separator?	L2	3	2
7.	List out the components of the sheller.	L1	4	2
8.	Draw a belt conveyor and label the parts.	L2	4	2
9.	In what way can you improve the processing of rice?	L2	5	2
10.	Write down the different pulse milling methods.	L1	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Write in detail about the crop duration, stages of harvest and post-harvest losses of following crops viz., rice, maize, wheat, groundnut. Or	L3	1	16
	b Describe the procedures for determining moisture content using both direct and indirect methods.	L3	1	16
12.	a Describe the design, operation, and performance characteristics of the LSU dryer, highlighting its constituent parts, benefits, and limitations. Or	L3	2	16
	b Describe the working principle, advantages, disadvantages, and applications of a thin layer dryer with a neat sketch.	L3	2	16
13.	a Explain how the inclined draper and length separator separate materials based on their size and shape. Or	L2	3	16
	b Elaborate about air screen cleaner working principle, components with neat sketch.	L2	3	16

14.	a	Compare and analyze the working principles of two types of bucket elevators used in grain handling system.	L4	4	16
		Or			
	b	Compare different types of shellers and how to calculate shelling efficiency.	L4	4	16
15.	a	Elaborate parboiling of paddy process with its merits and demerits.	L2	5	16
		Or			
	b	Draw a flowchart and describe the steps involved in dry milling and wet milling of pulses.	L2	5	16