

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025***Fifth Semester**Agricultural Engineering***AI3015 - Protected Cultivation***Regulations - 2021***Duration : 3 Hrs****Maximum : 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BLT	CO	Marks
1.	What is a green house and poly tunnels?	L2	1	2
2.	How will you do fumigation in green house?	L2	1	2
3.	What is nutrient film technique?	L2	2	2
4.	Give the harvest and yield of Gherkin.	L1	2	2
5.	What is standard and spray type of chrysanthemum?	L2	3	2
6.	What are the varieties of liliu?	L2	3	2
7.	What is precision farming?	L2	4	2
8.	List the uses of drones in agriculture.	L1	4	2
9.	What are the precision farming techniques in banana?	L2	5	2
10.	What are the precision farming techniques in chrysanthemum?	L2	5	2

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

Q.No	Questions	BLT	CO	Marks
11.	a i Explain the importance and scope of protected cultivation.	L2	1	8
	ii Explain the environmental factors influencing greenhouse production.	L2	1	8
	Or			
	b i Explain the growing of crops under hydroponics and aeroponic system of cultivation.	L2	1	8
	ii Illustrate the growing media and nutrients used for protected cultivation.	L2	1	8
12.	a i How will you do training and pruning in tomato under protected cultivation?	L2	2	8
	ii What are the physiological disorders of watermelon? Explain.	L2	2	8
	Or			
	b i What are the pest management practices in cucumber? Explain.	L2	2	8

	ii	How will you store, pack and transport strawberry? Explain.	L2	2	8	
13.	a	i	How will you do netting and pinching practices in carnation? Explain.	L2	3	8
		ii	What are the postharvest handling practices of Anthurium?	L2	3	8
		Or				
	b	i	How will you store and pack orchids? Explain.	L2	3	8
		ii	What are types of lilium? Explain.	L2	3	8
14.	a	i	Explain the components of precision farming.	L2	4	8
		ii	Explain in detail the Mobile mapping system and its application in precision farming.	L2	4	8
		Or				
	b	i	Show the layout and install drip and fertigation in horticultural crops.	L2	4	8
		ii	Outline the application of robots for horticulture crops.	L2	4	8
15.	a	i	What are the precision farming practices for papaya?	L2	5	8
		ii	What are the precision farming practices for chillies?	L2	5	8
		Or				
	b	i	What are the precision farming practices for marigold?	L2	5	8
		ii	What are the precision farming practices for turmeric?	L2	5	8