

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Seventh Semester**Civil Engineering***OAI351 - Urban Agriculture****(Common to Chemical Engineering)***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>BTL</i>	<i>CO</i>	<i>Marks</i>
1.	List any two economic benefits of urban agriculture.	L1	1	2
2.	How does urban agriculture support food accessibility?	L2	1	2
3.	Define modular green wall.	L1	2	2
4.	Can you list two examples of indoor plants?	L1	2	2
5.	Outline the concepts of hydroponics.	L2	3	2
6.	What can you say about urban beekeeping?	L1	3	2
7.	How would you micro irrigation is more suitable for roof top gardening?	L2	4	2
8.	Name two crops suitable for roof top polyhouse cultivation.	L1	4	2
9.	Can you recall the common types of garden waste?	L1	5	2
10.	State the advantages of waste management.	L2	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 Explain the economic, social and cultural benefits of urban agriculture.	L2	1	16
	Or			
	b Discuss this statement with reference to its educational, training, and skill-building benefits.	L2	1	16
12.	a Enumerate the different types of vertical farming systems with a neat diagram.	L3	2	16
	Or			
	b What materials would you choose for making roof garden? Discuss extensive and intensive roof garden with neat sketches.	L3	2	16
13.	a Compare hydroponics, aeroponics and aquaponics system with its advantages and limitations.	L4	3	16
	Or			
	b Examine in detail the role of green houses in urban agriculture.	L4	3	16

14.	a	How would you justify in detail that vertical pipe farming is a good solution for saving space and resources in urban agriculture?	L3	4	16
		Or			
	b	With diagrams evaluate the components of roof top polyhouse farming and their role in successful crop production.	L3	4	16
15.	a	Discuss the different methods of recycling organic wastes and garden wastes.	L2	5	16
		Or			
	b i	Explain the effects of pesticide and fungicide residues.	L2	5	6
	ii	Demonstrate how the waste is utilized in roof top farming with examples.	L2	5	10