

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY****2025***Fifth/Sixth Semester**Agricultural Engineering***AI3017 - Integrated Farming System***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 the scope of a farming system?	L1	1	2
2.	Illustrate the various types of farming systems.	L2	1	2
3.	List any two objectives of IFS	L1	2	2
4.	Relate garden land in IFS context.	L1	2	2
5.	Name two breeds of goats commonly used in IFS.	L1	3	2
6.	Rephrase dairy farming in IFS.	L2	3	2
7.	Define agroforestry.	L1	4	2
8.	Mention two benefits of Azolla.	L1	4	2
9.	Define vermicompost.	L1	5	2
10.	Summarize the purpose of a gas holder in biogas plant.	L2	5	2

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

Q.No	Questions	BLT	CO	Marks
11.	a Demonstrate in detail the fundamental principles and key components of a farming system.	L2	1	16
	Or			
	b Explain the suitability of different farming systems for different agro-climatic zones.	L2	1	16
12.	a i Identify the historical background and evolution of the integrated farming system in India.	L3	2	8
	ii Construct on IFS models applicable to garden land.	L3	2	8
	Or			
	b Develop the layout and model of an integrated farming system suitable for wetland farming.	L3	2	16

13.	a	Interpret the importance and methods of deworming and young stock management in small ruminants.	L2	3	16
		Or			
	b	Extend how poultry rearing can be effectively integrated into an IFS model. Include management practices, economics, and waste utilization.	L2	3	16
14.	a	Build the types, castes, and lifecycle of bees. Write about care and management in beekeeping.	L3	4	16
		Or			
	b i	Identify in detail the types of agroforestry systems with examples.	L3	4	8
	ii	Organize the principles and methods of organic farming with advantages.	L3	4	8
15.	a	Analyze the biogas production process through IFS. Discuss the uses and features of biogas and the structure and functioning of the Dheenabandhu gas plant.	L4	5	16
		Or			
	b i	Discover on the integration of crop and goat in IFS with emphasis on resource recycling and sustainability.	L4	5	8
	ii	Contrast the resource recycling in wetland IFS.	L4	5	8