

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Fifth Semester**Agricultural Engineering***AI3017 - Integrated Farming System***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.	What is Mono cropping system?	L1	1	2
2.	Write about scope and need of farming system.	L1	1	2
3.	State the advantages of Integrated farming system.	L1	2	2
4.	List the factors influencing the extent of input usage.	L2	2	2
5.	What is rabbit farming system?	L1	3	2
6.	Differentiate Legume effect and Allelopathy.	L2	3	2
7.	Write about rearing and maintenance of silkworms.	L1	4	2
8.	Define Aquaculture.	L1	4	2
9.	What is mean by Crop Residue Management?	L1	5	2
10.	State the importance of Vermiwash in crop production.	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 i Enumerate different type of farming systems and its advantages and limitations.	L3	1	8
	ii Explain the role of farming system concept in Indian agriculture and explain what are the factors affecting farming system?	L2	1	8
	Or			
	b i Explain the scope of IFS in Agriculture and discuss three working Hypotheses/features of Farming Systems.	L3	1	8
	ii What are the principles of farming system and explain with suitable examples.	L2	1	8
12.	a i Design a suitable IFS model to farmer holding 2.5 ha dryland with annual rainfall of less than 750mm.	L3	2	8
	ii Discuss in detail about its historical background, characteristics features of IFS.	L2	2	8
	Or			
	b i Explain in detail about IFS model for Garden land condition with suitable examples.	L3	2	8
	ii What are the different components of Wetland IFS model? Explain its suitability for different cropping system.	L2	2	8

13.	a	i	What are the principles of livestock production Management?	L2	3	8
		ii	What are practices followed for animal health management in IFS? Write the basic principles of young stock management.	L2	3	8
			Or			
	b	i	What are the different types of animal housing system practiced in India? Write the merits and demerits of a loose housing system.	L2	3	8
		ii	What do you mean by silage? What is the importance of silage? Write the method of silage preparation.	L2	3	8
14.	a	i	What is agroforestry? What are the different types of agroforestry system.	L2	4	8
		ii	What is tree farming? Discuss the importance of tree farming in Agroforestry with suitable examples.	L2	4	8
			Or			
	b	i	Inland aquaculture is more vulnerable than marine culture – Discuss with suitable examples. What is importance of aquaculture in IFS?	L2	4	8
		ii	What are the different types of bees?? Write in detail about care and management of bees in IFS?	L2	4	8
15.	a	i	Explain the circular economy and its importance.	L2	5	8
		ii	Structure and function of Dheenabandhu Gas plant – Explain with diagram.	L2	5	8
			Or			
	b	i	How to prepare vermicompost from different farm wastes? – Explain.	L2	5	8
		ii	Mushroom farming is important component in IFS – Explain.	L2	5	8