

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***UG/PG DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2026****Seventh Semester****Electronics & Communication Engineering****CRA332 - DRONE TECHNOLOGIES****Regulations - 2024****Duration : 3 Hrs****Maximum : 100 Marks****PART – A(ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BTL	CO	Marks
1.	Define a Drone?	1	1	2
2.	List of some vocabulary terminology?	2	1	2
3.	Summarize the components in drones.	2	2	2
4.	Recall the Energy sources commonly used in drone?	1	2	2
5.	What is required for a drone to operate in controlled airspace?	1	3	2
6.	What is the safety management system for drones?	1	3	2
7.	How is a drone used in agriculture?	1	4	2
8.	What are the commercial applications of drones?	1	4	2
9.	Define a drone swarm?	2	5	2
10.	List the benefits of increasing autonomy of drone technology?	2	5	2

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

Q.No	Questions	BLT	CO	Marks
11.	a i Explain in detail about types of drones based on their method of propulsion?.	5	1	9
	ii Describe the effects of the drone technology through entrepreneurship?	2	1	7
	Or			
	b Discuss the evolution of drone technology?	5	1	16
12.	a Explain about classification of UAV with relevant diagram.	6	2	16
	Or			
	b i Summarize about how to connect a drone to WiFi.	5	2	9
	ii Describe the four basic flight modes in drone.	2	2	7
13.	a i Explain in detail about drone flying and operation CONOPS with necessary diagrams.	5	3	10
	ii Elaborate about the four main types of sensors and its functions.	5	3	6
	Or			
	b Describe the procedure and consideration for safely operating a small drone in a controlled environment?	5	3	16
14.	a The use of drones for mail delivery, while promising speed and efficiency, is plagued by significant ethical and practical issues that make large-scale deployment unrealistic." Discuss this statement, drawing on evidence and arguments to support your view. .	5	4	16
	Or			

	b	Describe in detail about the drone inspection of transmission lines and power distribution?	5	4	16	
15.	a	i	Explain in detail about specific aviation regulations and Standardization of safe operation of drones?	5	5	10
		ii	Summarize the general safety guidelines of UAS?	2	5	6
		Or				
	b	i	Discuss about challenges and future trends in Miniaturization of drones.	6	5	10
		ii	Summarize the safety and risk of drones.	2	5	6
