

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL/MAY 2025

Seventh Semester

Electronics and Communication Engineering

CRA332- Drone Technologies

Regulations - 2021

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

Q.No	Questions	BLT	CO	Marks
1.	Define a drone.	L1	1	2
2.	List some vocabulary terminologies.	L1	1	2
3.	List two energy sources commonly used in drones.	L1	2	2
4.	What is the significance of multi-rotor stabilization?	L1	2	2
5.	Name two types of sensors commonly found on drones and their functions?	L1	3	2
6.	Explain the Concept of operation for drone.	L2	3	2
7.	What factors should be considered when choosing a drone based on its application?	L1	4	2
8.	How do drones improve efficiency in the insurance sector?	L1	4	2
9.	List two guidelines that should be followed to fly drones safely.	L1	5	2
10.	What are the benefits of increasing autonomy in drone technology?	L1	5	2

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

Q.No	Questions	BLT	CO	Marks
11.	a i Analyze the evolution of drone technology.	L4	1	8
	ii Examine the different types of drones based on their method of propulsion.	L4	1	8
	Or			
	b i Analyze the impact of drone technology on businesses.	L4	1	8
	ii Examine the opportunities for entrepreneurship in the drone industry.	L4	1	8
12.	a i Classify UAV based on their application.	L2	2	8
	ii Briefly explain the overview of the main drone parts.	L2	2	8

Or

	b i	Explain the different levels of autonomy in drones.	L2	2	8
	ii	Summarize some common methods of programming drones.	L2	2	8
13.	a i	Compare and contrast about the various flight modes available in drones?	L4	3	8
	ii	Analyze the procedures and considerations for safely operating a small drone in a controlled environment?	L4	3	8
		Or			
	b i	Examine how management tools contribute to effective drone flight operations?	L4	3	8
	ii	List the importance of onboard and removable storage devices in managing drone data?	L4	3	8
14.	a i	Discuss about the effectiveness of drones in delivering mail, parcels and other cargo in this sector?	L5	4	8
	ii	Discuss the impact of drone technology on the agricultural sector?	L5	4	8
		Or			
	b i	Discuss in detail about the process and advantages of using drones for inspecting transmission lines and power distribution networks?	L5	4	8
	ii	Compare the use of drones in filmmaking and panoramic photography?	L5	4	8
15.	a i	Analyze the safety risks involved in drone operations?	L4	5	8
	ii	Analyze the significance of specific aviation regulations and standardization in the safe operation of drones?	L4	5	8
		Or			
	b i	Analyze the impact of miniaturization on drone technology?	L4	5	8
	ii	Influence the benefits of drone swarms?	L4	5	8