PRN:			Course Code :	UAE 351
Second Year **B. Tech** End Semester Examination Summer 2024				
Lighter Than Air Vehicle				
Day and Date: 31 MAY 2024			Max Marks:	**50**
Time :	02:00PM To 04:00PM		Duration:	**02** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt any two from the following**			
	a)	Explain concept of LTA system.	06	2	1
	b)	Explain Historical Developments of LTAV.	06	2	1
	c)	Briefly Discuss about the components of the LTA system.	06	2	1
Q.2		**Attempt any two from the following**			
	a)	Write about the methodology for airship conceptual design.	06	2	2
	b)	Explain Aerodynamic and stability analysis of airship.	06	2	2
	c)	Discuss the performance of LTA system.	06	2	2
Q.3		**Attempt the following**			
	a)	Explain Equilibrium and Stability analysis of aerostats.	06	2	3
	b)	Explain Ground handling and Mooring system.	07	2	3
		or			
	b)	What is an aerostat? Explain aerostat sub system.	07	2	3
Q.4		**Attempt the following**			
	a)	What are the Challenges in the design of LTA system?	06	2	4
	b)	Explain current trends and Recent Developments.	07	2	4
		or			
	b)	Explain what hybrid LTA system is and how to develop a Hybrid LTA system.	07	2	4

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