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## Sixth Semester B.E. Degree Examination, June/July 2023 History of Flight and Technology Forecast

Max. Marks: 100 Time: 3 hrs.

ONE full question from each module.

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
	110		
		Module-1	(12 Marks)
1	a.	Briefly summarize the classification of aircrafts with a flow chart.  Differentiate lighter than air and heavier than air aircrafts with suitable examples.	(08 Marks)
	b.	Differentiate lighter than air and neavier than air anothers with garden	
		OR	
		the contributions of Sir George Cayley to the field of aviation.	(10 Marks)
2	a.	Illustrate the contributions of Otto-Lilienthal to the field of aviation.	(10 Marks)
	b.	Illustrate the contributions	
		Module-2	(10 Marks)
3	a.	Summarize the influence of Wright-Brother's in modern day aviation.	(10 Marks)
	b.	With a neat sketch, explain the configuration of Wright-Flyer-I.	(200
		OR OR	
		Briefly explain the evolution of aircraft propulsion over the years.	(10 Marks)
4	a.	Briefly explain the evolution of alternat propulsion of alternat propulsion.  Describe the development of flight aerodynamics over the years.	(10 Marks)
	b.	Describe the development of high development of	
Module-3			
5	a.	With a neat sketch, explain the various components of an airplane and their func-	(12 Marks)
3	a.		(08 Marks)
	<b>b</b> .	Differentiate between fixed wing and rotary wing aircraft.	
		OR	
		Write short notes on the flight control system of aircraft.	(10 Marks)
6	a.	Explain the 6-basic aircraft instruments.	(10 Marks)
	b.	Explain the o-basic afford the	
		Module-4	(10 Marks)
7	a.	With a neat sketch, explain the types of fuselage construction.	(10 Marks)
,	b	the metallic and fille and fille and fille	(1011111)
		OR	
		Explain the structural members of a typical wing with a neat sketch.	(10 Marks)
8		- c detected the typical suites suited	(10 Marks)
	b	. Define stress and strain. Draw the typical	
		Module-5	(10 Marks)
9	) 0	With a neat sketch, explain the working of high-bypass turbofan engine.	(10 Marks)
		With a neat sketch, explain the working of a turbojet engine with after burner.  With a neat sketch, explain the working of a turbojet engine with after burner.	(10 Marks)
		OR	(08 Marks)
1	0	a. Explain the principle of Rocket propulsion.	(12 Marks)
	1	b. Explain the various types of Rockets and typical applications.	