Backlog

PRN:	

Course Code :	AET401

Final Year **B. Tech** End Semester Examination Summer 2023

Aircraft Systems

Day and Date: Monday, 12/6/23 Max Marks: **100**

Time : 2:00 pm - 5:00 pm Duration: **03** hrs

Instructions: All questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Attempt the following**			
a)	List Down the factors used for hydraulic system design criteria.	08	2	1
b)	Compare the civil transport hydraulic system comparison.	08	2	1
	OR			
b)	Explain about the aircraft landing gear hydraulic system.	08	1	1
Q.2	**Attempt the following**			
a)	Write note of flight control actuation systems.	08	2	1
b)	Compare the aircraft flight control system.	08	3	2
	OR			
b)	Explain the flight control laws.	08	2	2
Q.3	**Attempt any two from the following**			
a)	Explain the aircraft electrical system.	08	3	2
b)	List out the different types of generators used in aircraft.	08	1	3
c)	Explain the aircraft power generation system.	08	2	3
Q.4	**Attempt any two from the following**			
a)	Explain about aircraft engine airframe Interfaces.	08	2	3
b)	Explain detail about how to start the aircraft engine.	08	2	3
c)	Explain the engine controls on modern aircraft.	08	2	4
Q.5	**Attempt any two of the following**			
a)	Briefly explain about aircraft In-Flight Refueling system.	09	3	4
b)	Write in detail about polar operations system.	09	1	4
c)	Explain about A340 fuel system.	09	2	5
Q.6	**Attempt any Two of the following**			
a)	Explain about the aircraft emergency landing system.	09	2	5
b)	Write about crash switch and crash recorder.	09	1	5
c)	Explain about the passenger evacuation system.			

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