PRN: Course Code : UAE352

Second Year **B. Tech** End Semester Examination Summer 2024

Aircraft General Engineering Practices

Day and Date: 31 MAY 2024, Friday Max Marks: **100**

Time : 02:00PM To 05:00PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	List down the factors affecting human performance.	08	2	CO1
	b)	Explain in brief about safety around compressed gases.	08	2	CO1
		OR			
	b)	Explain in brief about safety around hazardous materials.	08	2	CO1
Q.2		**Attempt the following**			
	a)	Explain tie down procedure for sea plane and ski plane	08	2	CO2
	b)	Write short notes on strength of the tie down ropes.	08	2	CO2
		OR			
	b)	List down standard taxi signals.	08	2	CO2
Q.3		**Attempt any two from the following**			
	a)	Explain engine fails to start in unsatisfactory turbine engine starts.	08	2	CO3
	b)	What is the procedure of starting a turboprop engine.	08	2	CO3
	c)	Write short notes on reciprocating engine.	08	2	CO3
Q.4		**Attempt any two from the following**			
	a)	Explain in detail about weight terminologies of an aircraft.	08	2	CO4
	b)	Write down the formulae to calculate COG with reference to different datum conditions and also list out the drawbacks of aircraft overloading.	08	2	CO4
	c)	List down important weight and balance information found in TCDS.	08	2	CO4
Q.5		**Attempt any Two of the following**			
	a)	Write down the checklist for landing gear group.	09	2	CO5
	b)	Explain about special inspections during service life of an aircraft.	09	2	CO5
	c)	Explain Ultrasonic inspection in NDT.	09	2	CO5
Q.6		**Attempt any Two of the following**			
	a)	Write short notes on general purpose tools.	09	2	CO5
	b)	Brief about the factors affecting life of a cutting tools.	09	2	CO5
	c)	List down the types of cutting fluid and also mention the characteristics of a good cutting fluid.	09	2	CO5

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