PRN:		Course Code :	AER4705C

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

Air Traffic Control

Day and Date: Thursday, 07/12/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions:All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	What is the primary purpose of ATC? Explain the objectives of Air Traffic Services.	08	2	CO1
	b)	Explain in detail about VFR flights.	08	2	CO1
		OR			
	b)	Explain in detail about IFR flights.	08	2	CO1
Q.2		**Attempt the following**			
	a)	What is Aircraft separation. Explain in detail about horizontal separation.	08	2	CO2
	b)	Explain the following i. ATC clearance ii. Position report	08	2	CO2
		OR			
	b)	Explain the following i. Flight Plan ii. Flight information and alerting service.	08	2	CO2
Q.3		**Attempt any two from the following**			
	a)	What is a RADAR? Explain the operation principle of RADAR. Describe the applications of RADAR in the aviation field.	08	2	CO3
	b)	Differentiate between primary and secondary type of RADAR. Explain any one RADAR in detail.	08	2	CO3
	c)	What is ASMR? Explain in detail about applications of ASMR in airports.	08	2	CO3
Q.4		**Attempt any two from the following**			
	a)	Describe in detail about Obstacle limitation surface(OLS).	08	2	CO4
	b)	Explain in detail about the different types of runway.	08	2	CO4
	c)	Explain the following i. Aerodrome reference code ii. Aerodrome reference temperature	08	2	CO4

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Q.5		**Attempt any Two of the following**			
	a)	Explain in detail about visual aids for denoting obstacles emergency and other services.	09	2	CO5
	b)	What is an Aerodrome beacon? Explain the different types of beacon.	09	2	CO5
	c)	Explain the following i. Wind direction indicator ii. Landing direction indicator	09	2	CO5
Q.6		**Attempt any Two of the following**			
	a)	Describe the functions and responsibilities of DGCA.	09	2	CO5
	b)	Explain in detail about Airport Authorities of India	09	2	CO5
	c)	Describe the functions of Pawan Hans Helicopters Limited	09	2	CO5

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