PRN:		Course Code:	AER4705C

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

Air Traffic Control

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

Time : 10:30AM To 01:30PM 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	1	1
b)	Explain in detail about VFR flights.	08	2	1
	OR			
b)	Explain in detail about IFR flights.	08	2	1
Q.2	**Attempt the following**			
a)	What is Aircraft separation. Explain in detail about horizontal separation.	08	2	1
b)	Explain the following i. ATC clearance ii. Position report	08	2	2
	OR			
b)	What is Aircraft separation. Explain in detail about vertical separation.	08	3	2
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	1	3
b)	Differentiate between primary and secondary type of RADAR. Explain any one RADAR in detail.	08	2	3
c)	What is ASMR? Explain in detail about applications of ASMR in airports.	08	2	3
Q.4	**Attempt any two from the following**			
a)	Explain in detail about Obstacle limitation surface (OLS).	08	1	3

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b)	Explain in detail about the different types of runways.	08	2	4
c)	Explain the following i. Aerodrome reference code ii. Aerodrome reference temperature	08	3	4

Q.5 Attempt any Two of the following

a)	Explain in detail about visual aids for denoting obstacles emergency and other services.	09	3	4
b)	What is an Aerodrome beacon? Explain the different types of beacon.	09	2	4
c)	Explain the following iii. Wind direction indicator iv. Landing direction indicator	09	3	5

Q.6 Attempt any Two of the following

a)	Describe the functions and responsibilities of DGCA.	09	2	5
b)	Explain in detail about Airport Authorities of India	09	2	5
c)	Describe the functions of Pawan Hans Helicopters Limited	09	3	5

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