Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: Final YearB.Tech	**School of Technology**	**Department: AERO**
Course Code: AET409C	**Course Title: Air Traffic Control**	**Semester : 07**
Day : Tuesday **Date: 29.12.2020**	**End Semester Examination**	**Time:2 Hrs.** **Max Marks:50**

Instructions: 1) All Questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Answer the following (any Two)**–			
	a)	Calculating the atmospheric conditions, how the pilot will choose for VFR and IFR rules and on what basis?	8	3	CO1
	b)	Apply Brequet Range equation for an aircraft to reach maximum range? Discuss on payload range diagram.	8	3	CO2
	c)	Illustrate the calculations done by the pilot for preparing flight mission?	8	3	CO2
Q.2		**Answer the following (any two) –**			
	a)	List down the the aircraft handling process involved in airport during aircraft arrival and departure.	8	4	CO3
	b)	How do certain aircraft manage to attain higher altitudes?.Justify it in design aspect.	8	4	CO3
	c)	Analyze the various techniques and concepts used by pilot for navigation through visual aids.	8	4	CO4
Q.3		**Answer the following (any two) –**			
	a)	Design an airport on your own mentioning the location and characteristics of signal area, markings and general requirements.	9	4	CO4
	b)	Imagine you are the pilot of B747, with the help of the Airborne Collision Avoidance Systems, how the pilot controls the flight path and avoids flight accidents.	9	4	CO5
	c)	Analyze the different parameters needed to seek approval of various aviation organization and explain the government responsibilities on flight rules.	9	4	CO5

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