Sanjay Ghodawat University, Kolhapur 2019-20

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017 EXM/P/09/01

Year and Program: 2019-20 & T.Y B.Tech | **School of Technology** | **Department of Aeronautical Engineering**

Course Code: AET307C | **Course Title: AIRCRAFT GENERAL ENGINEERING AND MAINTENANCE** | **Semester – V**

Day and Date: Tuesday 26/11/19 | **End Semester Examination (ESE)** | **Time:3 Hours** 10.30 am to 1.30 pm | **Max Marks: 100**

Instructions:
1) All questions are compulsory.
2) Assume suitable data wherever necessary.
3) Figures to the right indicate full marks.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Write about the procedure used to inspect fire extinguishers.	07	L_2	CO1
		OR			
	a)	Discuss in detail about fire and its protection in aviation.	07	L_2	CO1
	b)	Illustrate suitable tie down procedure for sea plane and small aircraft.	08	L_4	CO1
		OR			
	b)	List down the taxiing procedure of aircraft with neat sketch.	08	L_2	CO1
Q.2		**Attempt the following**			
	a)	Write short note on APU with its application in aircraft.	07	L_2	CO1
		OR			
	a)	Explain turbo prop engine starting procedure with clear sketch.	07	L_2	CO1
	b)	Describe in detail about weight and balance terminology with clear sketch.	08	L_2	CO2
		OR			
	b)	Apply suitable procedure to calculate the weight and balance of helicopter.	08	L_3	CO2
Q.3		**Solve any Two**			
	a)	Explain about the shop safety with clear sketches in aviation.	08	L_2	CO1
	b)	Draw any six standard hand taxi signals with its meaning.	08	L_2	CO1

	c)	Illustrate the starting procedure of turbofan engines.	08	L_2	CO1
	d)	Calculate and Explain the procedure for weight and balance of large airplanes	08	L_4	CO2
Q.4		**Solve any Two**			
	a)	What is TCDS? Explain about Type Certificate Data Sheet.	09	L_2	CO3
	b)	Describe in details about special inspection used in aircraft.	09	L_2	CO3
	c)	Explain about Non Destructive Testing used in aircraft.	09	L_3	CO3
Q.5		**Solve any Two**			
	a)	Illustrate about the special tools used in aircraft	09	L_3	CO3
	b)	Explain the different type of general purpose tool used in aircraft.	09	L_3	CO3
	c)	Describe in details about taps and dies used in aircraft.	09	L_2	CO3
Q.6		**Solve any Three**			
	a)	List down the various manuals used in aircraft	06	L_2	CO3
	b)	Describe in detail about following things	06	L_2	CO3
		(i) Visual inspection			
		(ii) Preflight inspection			
	c)	Write in detail about layout and measuring tool used in Aircraft.	06	L_2	CO3
	d)	How do select the different type of metal cutting tools used in aircraft.	06	L_4	CO3

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ESE