Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINA	ATION – WINTER 2023
Subject Code:3170111	Date:19-12-2023
Subject Name: Aircraft General Engineering and	Maintenance Practices
Time: 10:30 AM TO 01:00 PM	Total Marks:70
Instructions:	
1. Attempt all questions.	
2. Make suitable assumptions wherever necessary.	
3. Figures to the right indicate full marks.	
4. Simple and non-programmable scientific calculator	rs are allowed.
	MARKS

Q.1	(a) (b)	Why is maintenance required in aircraft? Write an Engine starting procedures.	03 04
	(c)	Make a list of Aircraft Ground Handling and Support Equipment and explain in short.	07
Q.2	(a)	Write a list "Types of maintenance".	03
	(b)	Explain pressurization system of fuselage.	04
	(c)	Difference between Piston engine and Jet engine.	07
		OR	
	(c)	How the Oxygen System and oil system works?	07
Q.3	(a)	What is ground power unit.?	03
	(b)	Write an Aircraft inspection process.	04
	(c)	Write a note on "Maintenance of Safety".	07
		OR	
Q.3	(a)	What is the purpose of inspection? Shortly explain	03
	(b)	Define ATA specifications.	04
	(c)	Write a note on an Inspection Data Sheet?	07
Q.4	(a)	•	03
	(b)	Make a list of Special tools and equipment in an airplane maintenance shop.	04
	(c)	Explain FAR Air worthiness directives.	07
		OR	
Q.4	(a)	1. Aircraft maintenance is the overhaul, repair, inspection or	03
		modification of an aircraft or aircraft component.	
		a) True	
		b) False	
		2. Which of the following is the most extensive maintenance check to	
		be performed on an aircraft?	
		a) A-Check	
		b) D-Check	
		c) B-Check	
		d) C-Check	
	(b)	What is the use of Engine fire extinguishing during ground operation?	04
	(c)	Write a short note on air-conditioning system with diagram.	07

Q.5	(a)	What is leveling and towing operations?	03
	(b)	Shortly explain Environmental cleanliness.	04
	(c)	Explain Inspection Publications and bulletins	07
		OR	
Q.5	(a)	Make a list of safeties Precautions during aircraft maintenance?	03
	(b)	Explain about Precision instruments used in aircraft maintenance in inspection.	04
	(c)	Explain swaging over splicing?	07
