

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2022****Subject Code:3170111****Date:12-01-2023****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 calculators are allowed.
5. Use of property table is permissible.

		MARKS
Q.1	(a) What is mooring?	03
	(b) What is jacking? Explain the procedure of jacking.	04
	(c) Explain about leveling and towing ground operations.	07
Q.2	(a) Explain the starting procedure for a piston engine.	03
	(b) Explain the starting procedure for a turbofan engine.	04
	(c) Explain in detail, the safety precautions during aircraft maintenance.	07
	OR	
	(c) Which are the different types of inspection? Explain in detail.	07
Q.3	(a) List some of the flammable materials found in the aviation industry.	03
	(b) Name types of fabric suitable for covering an airplane.	04
	(c) Write a short note on Maintenance and Servicing of aircraft Oxygen System.	07
	OR	
Q.3	(a) Give a brief description of the procedure for aligning an aircraft structure.	03
	(b) Briefly describe the conditions that would require an alignment check for a complete aircraft.	04
	(c) Explain about Risk Diamond?	07
Q.4	(a) Why should an aircraft be thoroughly dry before an inspection of wood structures is started?	03
	(b) What is importance of engine overhauling?	04
	(c) Explain in detail: Annual/100-Hour Inspections and Progressive Inspections	07
	OR	
Q.4	(a) What is heat exchanger? Why it is used in heat transfer applications?	03
	(b) What is swaging? Explain the advantages of swaging over splicing.	04
	(c) Explain in details the type Certificate Data Sheets.	07
Q.5	(a) Explain Flight Line Safety.	03
	(b) What is Aircraft logs? What does it include?	04
	(c) Write the checklist while performing an inspection.	07
	OR	
Q.5	(a) What is the importance of technical publications?	03
	(b) Explain in brief: the overhaul manual.	04
	(c) Explain in brief: the Maintenance Manual.	07
