

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2021****Subject Code:3170111****Date:29/12/2021****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.

		Marks
<b>Q.1</b>	(a) What is the importance of maintenance practice in aviation industry?	<b>03</b>
	(b) Explain about Identification terminology	<b>04</b>
	(c) Explain standard operating procedure of Piston engine starting.	<b>07</b>
<b>Q.2</b>	(a) What is inspection Data Sheet? explain briefly	<b>03</b>
	(b) Explain pressurization of fuselage	<b>04</b>
	(c) What are the importance of Aircraft Ground Handling and Support Equipment	<b>07</b>
<b>OR</b>		
	(c) Explain service procedure of Oxygen System	<b>07</b>
<b>Q.3</b>	(a) What is inspection manual?	<b>03</b>
	(b) What is the application of Ground power unit?	<b>04</b>
	(c) How air-conditioning system will work in aircraft? Explain with diagram.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) What is the use of Engine fire extinguishing during ground operation?	<b>03</b>
	(b) Classify types of inspection in aviation industry.	<b>04</b>
	(c) What are the specifications for the exchange of configuration data between Aircraft Operators?	<b>07</b>
<b>Q.4</b>	(a) Shot note on Environmental cleanliness	<b>03</b>
	(b) What are the 3 types of Airworthiness Directives?	<b>04</b>
	(c) What are the safeties Precautions during aircraft maintenance?	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Explain briefly about Mooring	<b>03</b>
	(b) Explain Inspection Publications and bulletins	<b>04</b>
	(c) What are the Special tools and equipment in an airplane maintenance shop?	<b>07</b>
<b>Q.5</b>	(a) Explain about leveling and towing ground operations	<b>03</b>
	(b) Explain about Precision instruments used in aircraft maintenance in inspection.	<b>04</b>
	(c) What are the Advantages of swaging over splicing?	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) What is inspection check-list? explain briefly	<b>03</b>
	(b) Explain different Inspection Techniques in aviation industry.	<b>04</b>
	(c) How will you Identify types of fluid line fittings?	<b>07</b>