

GUJARAT TECHNOLOGICAL UNIVERSITY
BACHELOR OF ENGINEERING – SEMESTER 7 – EXAMINATION – SUMMER 2026

Subject Code: 3170111

Date: 08/06/2026

Subject Name: Aircraft General Engineering and Maintenance Practices

Time: 02:30 PM TO 05:00 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.**

- Q.1**
- (a) Define mooring and jacking **03**
 - (b) List three types of ground power units. **04**
 - (c) Describe the complete engine starting procedure for jet engines. **07**
- Q.2**
- (a) Name any three components of an oxygen system **03**
 - (b) Describe engine starting procedure for piston engine. **04**
 - (c) Explain servicing of the aircraft oxygen system. **07**
- OR
- Q.2**
- (c) Explain different types of inspections in aircraft maintenance with examples. **07**
- Q.3**
- (a) **What is shop safety?** **03**
 - (b) What is the purpose of inspection checklists? **04**
 - (c) Discuss engine fire extinguishing systems. **07**
- OR
- Q.3**
- (a) Explain pressurization of fuselage. **03**
 - (b) Illustrate process of leveling an aircraft. **04**
 - (c) Explain aircraft ground handling process. **07**
- Q.4**
- (a) Define Type Certificate Data Sheet (TCDS). **03**
 - (b) State two advantages of swaging over splicing. **04**
 - (c) Explain various aircraft materials and their identification procedures. **07**
- OR
- Q.4**
- (a) What are the safeties Precautions during aircraft maintenance? **03**
 - (b) Describe in detail the types of tools used in aircraft maintenance with their purposes. **04**
 - (c) List various manuals used in aircraft maintenance and their uses. **07**
- Q.5**
- (a) Differentiate between American and British hardware specifications. **03**
 - (b) Describe environmental cleanliness measures in aircraft maintenance. **04**
 - (c) Explain importance of bulletins and manuals in maintenance. **07**

OR

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| Q.5 | (a) What are the 3 types of Airworthiness Directives? | 03 |
| | (b) Explain the types of fittings in fluid line systems. | 04 |
| | (c) Illustrate and explain aircraft hardware and fittings with specifications. | 07 |
