

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2024

Subject Code:3170111

Date:16-12-2024

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

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|------------|--|-----------|
| Q.1 | (a) What is mooring? | 03 |
| | (b) What is the application of Ground power unit? | 04 |
| | (c) Explain standard operating procedure of Piston engine starting. | 07 |
| Q.2 | (a) What is meant by Shop safety? | 03 |
| | (b) What is jacking? Explain the procedure of jacking. | 04 |
| | (c) Explain about leveling and towing ground operations. | 07 |
| | OR | |
| | (c) Explain pressurization of fuselage. | 07 |
| Q.3 | (a) What is heavy maintenance of aircraft? | 03 |
| | (b) Explain in detail, the safety precautions during aircraft maintenance. | 04 |
| | (c) Explain the starting procedure for a turbofan engine. | 07 |
| | OR | |
| Q.3 | (a) What is inspection data sheet? | 03 |
| | (b) What is inspection manual? | 04 |
| | (c) Write a short note on Maintenance and Servicing of aircraft Oxygen System. | 07 |
| Q.4 | (a) What is the meaning of MRO in aviation? | 03 |
| | (b) Classify types of inspection in aviation industry. | 04 |
| | (c) What are the Special tools and equipment in an airplane maintenance shop? | 07 |
| | OR | |
| Q.4 | (a) What is the specification of various aircraft hardware? | 03 |
| | (b) Explain Inspection Publications and bulletins | 04 |
| | (c) How air-conditioning system will work in aircraft? Explain with diagram. | 07 |
| Q.5 | (a) What are the duties of aircraft maintenance engineer? | 03 |
| | (b) What is the use of Engine fire extinguishing during ground operation? | 04 |
| | (c) Short note on Environmental cleanliness. | 07 |
| | OR | |
| Q.5 | (a) What are the types of airworthiness directives? | 03 |
| | (b) What is inspection check-list? explain briefly | 04 |
| | (c) Explain types of fluid line fitting. | 07 |
