

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 150105

Date: 05/05/2017

Subject Name: Operation & Maintenance of Aircraft

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.**

- Q-1 A Shortly explain maintenance and overhauling procedure of a conventional gas turbine engine. **07**
 B With neat sketch explain structural parts of a conventional sheet metal wing. **07**
- Q-2 A With neat sketch explain structural components of a semimonocoque structure. **07**
 B With neat sketch classify Under Carriage and landing gear system. **07**
- OR**
- B Briefly explain VOR navigation system. **07**
- Q-3 A Explain any one type of fuel supply or fuel control system. **07**
 B Briefly explain Instrument Landing System with neat sketch. **07**
- OR**
- A Briefly explain ADF- NDB navigation principle. **07**
 B How does a thermocouple work to measure EGT of nozzle? **07**
- Q-4 A Shortly engine testing procedure. **07**
 B Explain engine lubrication system with neat sketch. **07**
- OR**
- A Shortly explain APU and GPU. **07**
 B Discuss about materials used to construct airframes. **07**
- Q-5 A Shortly explain basic engine instruments. **07**
 B How will you repair welded steel tube fuselage airframe? **07**
- OR**
- A Explain power distribution system of aircraft. **07**
 B Explain fire protection and warning system of aircraft engine. **07**
