

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 160106

Date: 03/05/2017

Subject Name: Avionics

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.

- Q.1** (a) Explain Instrument landing system in brief with suitable diagram. **07**
(b) Explain the working principle of Airborne weather radar with suitable sketch. **07**
- Q.2** (a) Explain Radar altimeter with proper diagram. **07**
(b) Enlist and shortly explain avionics systems used in aircraft. **07**
- OR**
- (b) Explain Flight Management System in brief with suitable diagram. **07**
- Q.3** (a) Write a short note: (i) Head-Up Display and Head Mounted Display **07**
(ii) Fly-By-Wire system
(b) Explain Global Positioning System in brief with proper diagram. **07**
- OR**
- Q.3** (a) Explain Traffic collision avoidance system with suitable diagram. **07**
(b) Explain working of VOR and its errors in brief. **07**
- Q.4** (a) Define Doppler effect. Explain Doppler radar in brief. **07**
(b) Explain Automatic Direction Finder in brief. **07**
- OR**
- Q.4** (a) Explain Evaluation of Avionics system in brief **07**
(b) Explain Non Directional Beacon in brief. **07**
- Q.5** (a) Explain the difference between Primary radar and Secondary radar. **07**
(b) Briefly explain Long Range Navigation. **07**
- OR**
- Q.5** (a) Explain operation of Distance Measuring Equipment and its error in brief with suitable diagram. **07**
(b) Explain Airborne Early Warning System in brief. **07**
