

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – WINTER • 2014

Subject Code: 160106**Date: 08/12/2014****Subject Name: Avionics****Time: 02:30 pm - 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) Explain the term Avionics. Classify Avionics system used in general aviation aircraft, **07**
(b) Classify VORs. What is the application of VOR? **07**

- Q.2** (a) What are main components of Instrument Landing Systems? How do they help pilot to reach threshold of Runway? **07**
(b) Explain Radio Altimeter. How does it inform pilot about ground clearance with aircraft. **07**

OR

- (b) What is DME? Explain its integration with various avionics systems. **07**

- Q.3** (a) Give a short note on VORTAC. **07**
(b) Differentiate between Microwave landing system and Instrument landing system. **07**

OR

- Q.3** (a) Explain the system which helps pilot to avoid potential collision with other aircraft on its way. **07**
(b) Discuss errors of VOR. **07**

- Q.4** (a) Explain Head-up and Helmet mounted display with neat sketch. **07**
(b) Enlist and very shortly explain avionics systems used in aircraft. **07**

OR

- Q.4** (a) What are differences among Aircraft engine Instruments and Avionics Instruments? **07**
(b) What is Multi-Function Display? What kind of informations can be acquired from MFDs. **07**

- Q.5** (a) Explain LORAN. **07**
(b) Shortly explain aircraft GPS. **07**

OR

- Q.5** (a) What do you understand about Avionics Architecture? **07**
(b) Explain Airborne Weather Radar and Iso-Echo with neat sketch. **07**
