

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII • EXAMINATION – SUMMER • 2015

Subject Code: 170105**Date: 06/05/2015****Subject Name: Advance 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 Built-In Test Equipment in brief. **07**
(b) Explain Maintenance by Who-When-Where Concept in brief. **07**
- Q.2** (a) Explain with neat sketch how CRT works. **07**
(b) Explain DO-178 and DOD-STD-2167. **07**
- OR**
- (b) Briefly explain factors of evaluation of System design. **07**
- Q.3** (a) Discuss technics to save space in aircraft cockpits. **07**
(b) Explain military standard of POWER MIL-STD-704. **07**
- OR**
- Q.3** (a) With neat sketch explain multifunctional key board. **07**
(b) Shortly explain ECM and ECCM. **07**
- Q.4** (a) Differentiate between civil and military avionics. **07**
(b) Explain principle of Night Vision Goggle. How NVG helps pilot to identify targets by night. **07**
- OR**
- Q.4** (a) Explain how Speech recognition system works? **07**
(b) Explain standards concern with quality power supply of civil aircrafts. **07**
- Q.5** (a) Give overview of advance avionics systems using nowadays. **07**
(b) Explain standardization of military avionics. **07**
- OR**
- Q.5** (a) Differentiate between GPWS and EGPWS. **07**
(b) Classify TCAS. How it protects aircrafts from other head-on aircrafts. **07**
