



**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2018**

**Subject Code:2160106**

**Date:08/05/2018**

**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.

	<b>MARKS</b>
<b>Q.1</b> (a) Why does DME collocate with glide slop?	<b>03</b>
(b) Explain sequence of marker beacons.	<b>04</b>
(c) Discuss application of DME in civil and military aviation.	<b>07</b>
<b>Q.2</b> (a) Why inner marker is not attached with every ILS?	<b>03</b>
(b) Differentiate between precision and non precision approach.	<b>04</b>
(c) Draw and explain Azimuth of general aviation ILS.	<b>07</b>
<b>OR</b>	
(c) Draw and explain Elevation of general aviation ILS.	<b>07</b>
<b>Q.3</b> (a) Explain radial interception.	<b>03</b>
(b) Differentiate between ILS and MLS.	<b>04</b>
(c) Explain VOR navigation.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Differentiate between VOR and ILS approach.	<b>03</b>
(b) Explain wave propagation of HF wave.	<b>04</b>
(c) Discuss errors of NDB navigation.	<b>07</b>
<b>Q.4</b> (a) Explain importance of DH bug in radio altimeter.	<b>03</b>
(b) Only draw and explain movement of CDI in ILS indicator.	<b>04</b>
(c) Shortly explain GPWS.	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) How radio altimeter warns pilot about low ground clearance?	<b>03</b>
(b) Shortly explain importance of speech recognition synthesis.	<b>04</b>
(c) Explain GPS.	<b>07</b>



- Q.5 (a) Explain application of TACAN in VORTAC. **03**
- (b) Differentiate between primary and secondary radar. **04**
- (c) Briefly explain fly by wire control system for elevator. **07**

**OR**

- Q.5 (a) How AWACS is helpful to airforce? **03**
- (b) Explain application of flight management system flight. **04**
- (c) Discuss ergonomics of cockpit design. **07**

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