

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

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

Subject Code:2160106 Date:08/05/2018

**Subject Name: Avionics** 

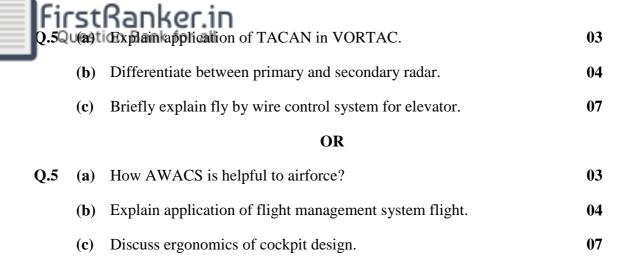
Time:10:30 AM to 01:00 PM **Total Marks: 70** 

## **Instructions:**

1.	Attempt a	11 ก	mestions.
1.	Attempt a	11 4	ucsuons

- Make suitable assumptions wherever necessary.
   Figures to the right indicate full marks.

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



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