Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – VI EXAMINATION – WINTER 2015

Subject Code:160106 **Date:11/12/ 2015**

Subject Name: AVIONICS

Time:2:30pm to 5:00pm **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)**	What is cone of confusion? How does it confuse pilot during flight?	**07**
	(b)	Explain how ADF- NDB Navigation system is helpful to pilot?	**07**
Q.2	**(a)**	Explain Instrumental landing System with layout.	**07**
	(b)	Differentiate between TCAS-I and TCAS-II.	**07**
		OR	
	(b)	How GPWS saves lives of onboard people?	**07**
Q.3	**(a)**	What is Morse code? How does it confirm pilot about identification of particular Navigation Equipment?	**07**
	(b)	Explain SATCOM.	**07**
		OR	
Q.3	**(a)**	How GPS helps pilot for navigation purpose?	**07**
	(b)	Explain Onboard weather monitoring system with neat sketches.	**07**
Q.4	**(a)**	How Secondary Radar is much better than Primary Radar?	**07**
	(b)	Explain errors of NDB wave propagation.	**07**
		OR	
Q.4	**(a)**	Describe applications of Doppler Radar in Aviation industries?	**07**
	(b)	Differentiate between medium range and Long Range Navigation (LORAN) system?	**07**
Q.5	**(a)**	How Flight Management System helps pilot for navigation purpose?	**07**
	(b)	What is Airborne Early Warning system?	**07**
		OR	
Q.5	**(a)**	How fly by wire system works? Explain pro and corns of this system.	**07**
	(b)	How liquid crystal display system is better than cathode ray tube?	**07**

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