

## GUJARAT TECHTIORACICAL UNIVERSISTRANKER.com

**BE - SEMESTER-VI(NEW) - EXAMINATION - SUMMER 2019** 

Subject Code:2160106 Date:21/05/2019

**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.

,	5. FI	gures to the right indicate full marks.	MARKS
Q.1	(a)	Why is DME integrated with glide slope transmitter?	03
•	<b>(b)</b>	Explain application of outer marker beacon NDB.	04
	(c)	Draw and explain function of Instrument Landing System.	07
<b>Q.2</b>	(a)	What is the major difference between in VOR and DVOR?	03
	<b>(b)</b>	What is the basic difference between ILS and MLS?	04
	(c)	Classify NDB with respect to applications.	07
OR			
	(c)	Explain Tactical Air Navigation system? How does it protect Airbase from enemy attack?	07
Q.3	(a)	Shortly explain application of GPS for air navigation.	03
Q.S	(a) (b)	Differentiate between TCAS-1 and TCAS-2.	03
	(c)	Differentiate between primary ground radar and secondary	07
	(C)	surveillance radar.	07
		OR	
Q.3	(a)	Explain principle of radio altimeter.	03
Q.S	(b)	Discuss the application of Radar Altimeter for GPWS.	04
	(c)	Draw and explain display screen of a SSR.	07
Q.4	(a)	Differentiate between Runway ILS and Warship Deck ILS.	03
۲۰۰	(b)	Differentiate between precision and non precision approach.	04
	(c)	Draw and explain function of Fly By Wire system.	07
	(C)	OR	07
Q.4	(a)	What is the advantage of early warning system over ground installed secondary radars.	03
	<b>(b)</b>	Differentiate between radar altimeter and pressure altimeter.	04
	(c)	Discuss issues related to operation of flight deck avionics instruments.	07
Q.5	(a)	Shortly explain application of SATCOM as an avionics.	03
	<b>(b)</b>	Explain principle of Speech Recognition.	04
	(c)	Explain Flight Management System.	07
	` /	OR	
Q.5	(a)	Enlist components of Electronic Warfare.	03
~ -	(b)	Explain application and principle of a goggle which helps a fighter	04
	. ,	pilot to fly by night.	
	(c)	Discuss Avionics Architecture by Joint Integrated Avionics.  ***********************************	07

\*\*\*\*\*