Enrolment No.	
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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-6 • EXAMINATION – SUMMER 2015

	Subject Code: 160106 Date:18/05/2 Subject Name: Avionics		
Tiı	ne:1 tructio 1. 2.	0.30AM-01.00PM Total Marks:	70
Q.1	(a) (b)	Explain application of Avionics equipments in civil and military aviation. Explain onboard weather monitoring system with neat sketches.	07 07
Q.2	(a) (b)	Draw layout of Instrument Landing System. Explain functions of components of ILS. What are applications of GPS in Aviation services?	07 07
	(b)	How an aircraft becomes safe from potential head-on collision with other aircrafts? Explain concern equipments.	07
Q.3	(a) (b)	Explain a system which helps pilot to identify threat while flying at low level below 2500 feet above ground level. Explain VHF navigation VOR system.	07 07
Q.3	(a) (b)	OR Explain on-board and off-board HF navigation system of ADF-NDB. With neat sketch explain HF wave propagation of NDB.	07 07
Q.4	(a) (b)	With neat sketch explain Head-Up display. Explain Multifunction display briefly.	07 07
Q.4	(a) (b)	Explain Helmet Mounted display. How does it help a fighter pilot to locate a target and guide a missile? Discuss NDB wave propagation errors with neat sketches.	07 07
Q.5	(b) (a) (b)	Explain SSR. How is it better than Primary Radars? Shortly explain Flight Management System with either block diagram or neat sketches.	07 07 07
Q.5	(a) (b)	OR What is DME? With which avionics DME is integrated? Explain VOR-TAC. What is Tactical Air Navigation?	07 07
