GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–VII (NEW) - EXAMINATION – SUMMER 2017 Subject Code: 2170507 Date: 09/05/201 Subject Name: Computer Aided Process Synthesis			017
	tructio 1. 2.	2.30 PM to 05.00 PM Total Marks: ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	: 70
Q.1	(a) (b)	Explain Multifunction Display in brief with neat sketch. Explain how the Aircraft mission drives the avionics system design.	07 07
Q.2	(a)	What do you understand by Avionics Architecture? Discuss merits and demerits of various types of architecture involving Digital System Design.	07
	<b>(b)</b>	What do you understand by keeping avionics cool? OR	07
	<b>(b)</b>	What do you understand by "maintenance by WHO, WHEN and WHERE"?	07
Q.3	(a) (b)	Explain Indian satellite navigation system in brief. Explain Inertial reference system in brief. <b>OR</b>	07 07
Q.3	(a) (b)	Explain Flight management system with suitable diagram. Write a short note on SELCAL.	07 07
Q.4	(a) (b)	Explain Fault Tolerance system with block diagram. Explain Life cycle cost of an avionics system in brief. <b>OR</b>	07 07
Q.4	(a) (b)	Explain Emergency locator transmitter in brief. Explain Enhanced Ground proximity warning system in brief with neat sketch.	07 07
Q.5	(a) (b)	Explain Fault Detection methodology in brief with suitable sketch. Explain Flight interphone system with neat sketch. <b>OR</b>	07 07
Q.5	(a) (b)	Explain HF radio equipment with block diagram. How the maintenance of avionics system can be made easier using BIT And CFDS?	07 07

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