

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2018

Subject Code:2170105

Date:08/05/2018

Subject Name:Advance Avionics(Department Elective - II)

Time:02.30 PM to 05.00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS	
Q.1	(a) Explain an importance of avionics system in aviation industry.	03	
	(b) Explain Selective calling in brief.	04	
	(c) Explain Indian Satellite Navigation system in brief.	07	
Q.2	(a) Draw a block diagram of HF radio equipment.	03	
	(b) What do you understand by “Maintenance by WHO, WHEN and WHERE”?	04	
	(c) Explain flight data and voice recorder system in brief.	07	
OR			
Q.3	(c) Explain Fault Tolerance software in brief.	07	
	(a) Explain ATLAS: A giant of a test language.	03	
	(b) Write a short note on Autopilot flight director system.	04	
Q.3	(c) Explain Microwave landing system with neat sketch.	07	
	OR		
	(a) Write down the types of Emergency Locater Transmitter.	03	
Q.4	(b) Explain Partitioning with suitable block diagram.	04	
	(c) Explain Inertial navigation system in brief.	07	
	(a) Explain difference between GPWS and EGPWS.	03	
Q.4	(b) Shortly explain Flight management system in brief.	04	
	(c) Explain Flight Interphone system in brief.	07	
	OR		
Q.4	(a) Explain difference between life cycle cost of military aircraft and commercial aircraft.	03	
	(b) Draw a block diagram of Captain’s audio selector panel.	04	
	(c) Explain Fault tolerance methodology with block diagram.	07	
Q.5	(a) Explain Built-in-test equipment in brief.	03	
	(b) What do you mean by keeping avionics cool?	04	
	(c) Explain Electronic flight instrument system with suitable sketch.	07	
OR			
Q.5	(a) Write down types of Flight interphone system.	03	
	(b) Explain working principle of ELT and its use.	04	
	(c) Explain how Aircraft and its mission drive the Design of digital avionics system.	07	
