Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION – SUMMER 2013

•		Code: 140103 Date: 19-06-2013	
	e: 10	Name: Aircraft System and Instruments 0:30am - 01:00pm Total Marks: 70	
	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)		07 07
Q.2	(a) (b)	What are markings on Air Speed Indicators dials? How an Attitude Indicator helps pilot to know attitude of aircraft?  OR	07 07
	<b>(b)</b>	What Engine instruments are used in piston engine aircrafts?	07
Q.3	(a) (b)	Shortly explain double acting and single acting hydraulic actuators.  With neat sketch explain fuel tank of light aircraft.  OR	07 07
Q.3	(a) (b)	With neat sketch explain fuel system of a high wing light aircraft.	07 07
Q.4	(a) (b)	What are main components of hydraulic system of aircraft? Explain function of Vertical Speed Indicator with neat sketch.  OR	07 07
<b>Q.4</b>	(a)	Explain Pitot Static System of an aircraft.	07
<b>Q.4</b>	<b>(b)</b>	Explain with neat sketch how pressure altimeter works.	07
Q.5	(a)	What are errors of Air Speed Indicators?	07
	<b>(b)</b>	OR	07
Q.5	(a) (b)	What are anti-icing and de-icing systems of aircraft? Explain with neat sketch. What is cabin pressurization system? Explain with neat sketch.	07 07

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