Seat N	lo.: _	GUJARAT TECHNOLOGICAL UNIVERSITY PER MUTH SERVESTED EVALUATION MAY (HINE 2012)		
BE- VII th SEMESTER-EXAMINATION – MAY/JUNE- 2012 Subject code: 170101 Date: 24/05			/2012	
•	Subject Name: Aircraft Design-I			
•	Time: 02:30 pm – 05:00 pm Total Marl			
Instr				
	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)	· · · · · · · · · · · · · · · · · · ·	07 07	
	(b)	V-1-	07	
Q.3	(a)	What are the reasons behind giving twist to main wing? Explain with neat sketch.	07	
	(b)	necessary graph.	07	
Q.3	(a) (b)	•	07 07	
Q.4	(a) (b)	Explain the sentence "Propeller driven aircraft are not capable to cruise at higher altitudes".	07 07	
Q.4	(a) (b)	·	07 07	

Q.5 (a) How will you select fuselage width for personal utility aircraft? 07
 (b) Explain types of tail plane configuration with necessary sketches. 07
 Q.5 (a) Explain with neat sketches explain how will you locate horizontal stabilizer with reference to main wing for taper wing aircraft.
 (b) Explain with neat sketches explain how will you locate vertical fin with reference to main delta wing aircraft?

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