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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- VII (OLD) • EXAMINATION - WINTER 2017

Subject Code: 170104 Date: 15-11			-2017	
Ti	me: 1 tructio 1. 2.	Attempt all questions.	70	
Q.1	(a) (b)	What is Boattail? Explain with neat sketch What happen when flow past over a wedge and cone? Explain with neat sketch	07 07	
Q.2	(a) (b)	Explain ogival forebody What is Missile? Explain with neat sketch different types of missiles OR	07 07	
	(b)	Explain Mid section for airframe components	07	
Q.3	(a) (b)	Explain Induced drag and Parasite drag. Working principle of aerodynamics controls. Explain with neat sketch OR	07 07	
Q.3	(a) (b)	Explain Boost Glide Trajectory with neat sketch. Explain free flight dispersion.	07 07	
Q.4	(a) (b)	Explain Elimination of the Geysering effect in missiles. Explain Aging and useful life for solid propellants. OR	07 07	
Q.4	(a) (b)	What do you mean by base pressure? Explain in your words. Which are the desired physical properties of liquid propellant?	07 07	
Q.5	(a) (b)	Explain with neat sketch Wing control and Canard Control. Explain with neat sketch design and control for missile configuration design OR	07 07	
Q.5	(a)	Make a Relationship between mixture ratio loaded and mixture ratio burned for volume verses mass loaded	07	
	(b)	Explain Hemispherical forebody	07	

