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

Subject code: 180103 Date:02		2/11/2017	
		Name: Space Dynamics 50 PM TO 05:00 PM	Total Marks: 70
Insti	ructi	ions:	
	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)	The state of the s	07 07
	(b)	OR Write a note on Newton's Law of Gravitation in detail.	07
Q.3	(a)	With neat sketches explain primary phases of space mission.	07
	(b)	Explain mechanics of Circular orbit. Also list important points for the same. OR	07
Q.3	(a)		07
Q.S	(b)		07
Q.4	(a) (b)	Define Space. Classify Space Vehicles. Explain India's Mars Orbital mission in your words. OR	07 07
Q.4	(a)	Derive general equation of motion for a vehicle entering the atmosphere.	07
Q.4	(b)	Write a short note on Kepler's laws in detail.	07
Q.5	(a)	A 1.40	07
	(b)	OR	07
Q.5	(a)	aerodynamic heating rate.	07
	(b)	Explain different Space vehicle trajectories.	07

