Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – WINTER 2015

	•	t Code: 171902	Date: 07/12/2015	
Tiı	ne: 1 tructio	t Name: Automobile Engineering 10:30am to 1:00pm ons: . Attempt all questions.	Total Marks: 70	
		. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Explain rolling resistance, gradient resistance and was Draw sketch of rear engine, rear wheel drive type or relative merits over the conventional type chassis lay	chassis layout and state its	07 07
Q.2	(a) (b)	With neat sketch explain semi-centrifugal clutch. Describe the common features and major differe synchromesh gear box. OR	ence in constant mesh and	07 07
	(b)	Explain overdrive.		07
Q.3	(a)	What are functions of propeller shaft in automol function of slip joint in propeller shaft assembly?	bile vehicles? What is the	07
	(b)	Write short note on differential gear box. OR		07
Q.3	(a) (b)	Explain briefly vehicle safety standards and regulation Explain with neat sketch the rear axle mounting floating axle (II) Semi floating axle.		07 07
Q.4	(a) (b)	What is an engine overhauling? Explain the engine of Explain construction and working of telescopic type OR		07 07
Q.4	(a) (b)	Discuss with sketch Mac Pherson strut suspension. Explain: (i) Camber (ii) Caster (iii) Toe-in (iv) geometry.	Toe-out respect to steering	07 07
Q.5	(a) (b)	Explain with neat sketch the working of power assis Short note on tyre retreding OR	ted brake.	07 07
Q.5	(a) (b)	List out different Battery testing methods and explai Write names and purpose of instruments fitted on the	-	07
