Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2017	
Sı	ubjec	et Code: 2170204 Date: 06/05/20	017
T	ime: struct	et Name: Vehicle Testing &Homologation 02.30 PM to 05.00 PM ions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	70
Q.1	(a)	Define following terms. (1) ARAI (2) CMVR (3) SAE (4) Category M (5) Homologation (6) Category L1 (7) Vehicle vibration	07
	(b)	Explain wind tunnel testing of vehicle.	07
Q.2	(a)	with neat sketch.	07
	(b)	Explain calibration procedure for petrol fuel injector. OR	07
	(b)	Explain various sources of noises in an automobile vehicle.	07
Q.3	(a) (b)	What is Turning radius? Explain turning circle diameter test. Explain effect of noises on human being. OR	07 07
Q.3	(a)	Explain following road performance curves (1) Acceleration (2) Gradability	07
	(b)	Explain different emissions of an automobile.	07
Q.4	(a) (b)	What is PDI? Give importance of it. Which are the good habits of driving, the driver should have? Explain it detail. OR	07 07
Q.4	(a) (b)		07 07
Q.5	(a) (b)	Differentiate safety system of automobile. What is wheel balancing? Give its importance & explain types of wheel balancing with sketch.	07 07
Q.5	(a) (b)	OR Explain in brief: - AIS – 038 standard. Explain Roll over test performed on vehicle.	07 07
