Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 171902 Date: 02/05/2017

**Subject Name: Automobile Engineering** 

Time: 02:30 PM to 05:00 PM Total Marks: 70

## **Instructions:**

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	State the basis on which automobiles are classified Write short note on vehicle frame with neat sketch.	07 07
Q.2	(a) (b)	State types of auto garage equipment with modern system.  Discuss front wheel drive, rear wheel drive and all wheel drive.  OR	07 07
	<b>(b)</b>	Classify the different type of chassis and write advantages on any one.	07
Q.3	(a) (b)	Explain with sketch on centrifugal clutch.  Explain sliding mesh gear box with sketch.  OR	07 07
Q.3	(a) (b)	Explain with sketch on single plate clutch. Explain constant mesh gear box with sketch.	07 07
Q.4	(a) (b)	Describe on continuously variable transmission (CVT) system.  Write importance of propeller shaft device in vehicle.  OR	07 07
Q.4	(a) (b)	How transmission will take place on four wheel vehicle? Also draw line diagram  Explain telescopic shock absorber of two wheeler.	07 07
Q.5	(a) (b)	Explain wheel alignment equipment and its important.  Discuss on electric vehicle system for the Indian scenario.  OR	07 07
Q.5	(a) (b)	Write comparisons on radial tyre and bias ply tyre. Explain with neat sketch hydraulic brake.	07 07

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