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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION - WINTER 2018

C	hioat	Code: 171002 Dete: 10/11/2010	
	•	Code: 171902 Date: 19/11/2018	
Ti	•	Name: Automobile Engineering 0:30 AM TO 01:00 PM Total Marks: 70 ns:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Define "Automobile". Give classification of automobiles Draw a layout of an automobile. State the function of main components of an automobile.	07 07
Q.2	(a) (b)	Explain the working of sliding mesh gearbox with neat sketch. What are functions of clutch? What are requirements of good clutch? OR	07 07
	(b)	Sketch and explain the working of fluid coupling.	07
Q.3	(a) (b)	Describe the working of hydraulic braking system with neat sketch. Describe with neat sketch, Camber, Caster, Toe-in and Toe-out with respect to steering geometry.	07 07
Q.3	(a) (b)	OR Explain with neat sketch the working principle of telescopic type shock absorber. What are different types of safety features available in modern car?	07 07
Q.4	(a) (b)	Described with neat sketch construction and working of pressed steel disc wheel. Described the importance of driving license and insurance against third party.	07 07
Q.4	(a)	With neat sketch, explain constructional features of tubed and tubeless tyres. Discuss their relative merits and demerits.	07
	(b)	Write short notes on regular maintenance of a car.	07
Q.5	(a) (b)	Discuss functions of propeller shaft with neat sketch. Explain with a neat sketch construction and working of differential.	07 07
Q.5	(a)	OR List out different lights used in modern car and state its purpose.	07

Describe accessories used in automobile.

(b)

07