Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION – SUMMER 2019 Subject Code: 171902 Date: 14/05/2019			
Su Tii	bject me: 0 tructio 1. 2.	t Name:Automobile Engineering 02:30 PM TO 05:00 PM ons: Attempt all questions.	Total Marks: 70
Q.1	(a)	Explain effect of resistance to the motion of the vehicle	07
	(b)	Explain Types of frames, its function and loads on the frame.	07
Q.2	(a)	Why a clutch is necessary in vehicle? How clutches are classified	1? 07
	(b)	Explain automotive body and details of passenger car body. OR	07
	(b)	Draw the sketch of a single plate clutch and explain its working.	07
Q.3	(a)	What is a dog clutch? How does it work?	07
	(b)	Describe with neat sketch torque converter.	07
Q.3	(a)	OR Describe with neat sketch sliding mesh gear box.	07
	(b)	Discuss trouble shooting in clutch systems.	07
Q.4	(a)	Explain continuously variable transmission (CVT) system.	07
	(b)	State the functions of popular shafts and their types. OR	07
Q.4	(a)	Differentiate from drive and rear drive system in vehicle.	07
	(b)	Explain suspensions and requirements of suspension system in an	utomotive. 07
Q.5	(a)	What is toe-in and toe-out? What are its various effects on vehicle	e? 07
	(b)	Explain anti-lock brake systems (ABS) for vehicle. OR	07
Q.5	(a)	Write wheel and tyre trouble shooting in auto vehicles.	07
	(b)	Discuss charging methods and various test on battery.	07
