GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Code: 2150207 Date:10/12			2015	
Subject Name: Automobile Transmission Time:10:30am to 1:00pm Total Mar Instructions:			70	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	What is the need of transmission in automobile? Explain classifications of transmission system.	07	
	(b)	Explain tractive effort and resistance to motion of a vehicle	07	
Q.2	(a)	Explain requirements of friction lining material. Give difference between wet clutch and dry clutch	07	
	(b)	With neat sketch explain multi plate clutch. OR	07	
	(b)	With neat sketch explain centrifugal clutch	07	
Q.3	(a)	With neat sketch explain synchromesh gear box.	07	
	(b)	With neat sketch explain transfer box.	07	
	OR			
Q.3	(a)	Explain gear box maintenance.	07	
	(b)	With neat sketch explain constant mesh gear box.	07	
Q.4	(a)	With neat sketch explain fluid coupling.	07	
	(b)	Give difference between hydrodynamic and hydrostatic drive. OR	07	
Q.4	(a)	With the help of diagram explain constructional and functional details of torque converter.	07	
	(b)	Explain constructional and functional details of Janney hydrostatic drive.	07	
Q.5	(a)	Explain drive system used in hybrid vehicle.	07	
	(b)	Write short note on Electric drive.	07	
OR				
Q.5	(a)	With neat sketch explain hydraulic actuation system.	07	
	(b)	Explain automatic transmission with intelligent Electronic control systems.	07	
