## Paper/Subject Code: 36301/AUTOMOTIVE SYSTEM TE Auto / Sem VI / CBGS / Second half 2018/16/11/18

		(3 Hours)	[Total Marks: 80]	
N.B:	(1	Question no 1 is compulsory.		
	(2	2) Attempt any three out of remaining five questions.		
Q.1	a	Explain the functional requirement of a clut working of a centrifugal clutch with a neat lab		10
	b	Explain the need and working mechanism detail with a neat labelled diagram.		10
Q.2	a	Explain epicyclic gear box in detail. Also forward and reverse gears can be achieved component of a simple epicyclic gear train.	The state of the s	10
	b	What is the requirement of a steering s between hydraulic steering and electrohydrau	The state of the s	10
Q.3	a	Compare sliding mesh gear box with a sy Also show power flow diagram.	nchromesh gearbox.	10
	b	Explain the function and working of a different types of gearing used in a final drive		10
Q.4	a	Explain semi floating and three quarter float with neat labelled diagram and load acting on	100	10
	b	Explain working of hydraulic brake system.		10
Q.5	a	What do you understand by dependen suspension system? Explain one type of each diagram.		10
	b	Explain radial ply and cross ply type of tire co	onstruction.	10
Q.6	of it	Write short note on following with a neat lab	elled diagram:	
	·	a) Electronic power steering		04
		b) Hotchkiss drive c) Transaxle		04 04
	al.	d) Torque converter		04
		e) Propeller shaft construction and joints		04