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

	•		Date:05/12/ 2015	
Subject Name: Automobile SystemsTotal NTime:10:30am to 1:00pmTotal NInstructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.		D:30am to 1:00pm Total Marks: ns: Attempt all questions. Make suitable assumptions wherever necessary.	70	
Q.1	(a) (b)	Explain front engine front wheel layout of vehicle and advantages of front wheel drive. Explain four wheel drives with advantages.	07 07	
Q.2	(b) (a) (b)	Explain rour wheel drives with drivinges. Explain any three types of frame. Write a short note on conventional body and integral body. OR	07 07 07	
	<b>(b)</b>	Write a short note on purpose of suspension system.	07	
Q.3	(a) (b)	Explain hydro pneumatic suspension system. Explain torsion bar.	07 07	
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Q.3	(a) (b)	Explain electromagnetic clutch. Write a short note on fluid flywheel.	07 07	
Q.4	(a) (b)	Briefly discuss about bleeding of brake. Write a short note on pneumatic braking system. <b>OR</b>	07 07	
Q.4	(a) (b)	Write a short note on torque converter. Explain condition of correct steering.	07 07	
Q.5	(a) (b)	Explain any three types of steering gear box. Explain Hotch kiss drive.	07 07	
Q.5	(a)	<b>OR</b> Write a short note on drawbar pull.	07	
<u>ر</u> بی	(a) (b)	Briefly discuss about specification of tyres.	07 07	

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