Total No. of Questions : 6]			SEAT No.:	
P5890	6		[Total No	o. of Pages : 2
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BE/INSEM/OCT. - 520

		B.E. (Mechanical)
		Automobile Engineering (2015 Pattern) (Elective - II)
		lour] [Max. Marks :3 ons to the candidates:
	1)	All questions carry equal marks.
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.
	3)	Figures to the right indicate full marks.
	4)	Use of electronic pocket calculator is allowed.
	<i>5)</i>	Assume suitable data, if necessary.
Q1)	a)	Explain the current scenario in Indian Automobile/ancillary industries.[5
	b)	Explain the various section used for side members and cross member of Chassis Frame. OR
Q2)	a)	Explain the purpose with neat sketch of Synchronizer and its operation in a gear box.
	b)	Explain with the neat sketch of Overdrive and also show its freewheel.[5
Q3)	a)	Differentiate between dead axle and live axle. [5]
	b)	Define with neat sketch the following terms related to steering geometry. Also write its effect on: i) Caster ii) Camber OR

Q4)	a)	List out the types of Carcass tyres and explain any one with neat sk of it.	etch [5]
	b)	Explain the factors which affect the performance of Vehicle.	[5]
Q5)	a)	Explain with the neat sketch of Self leveling Suspension system.	[5]
	b)	Explain with the neat sketch of Vacuum Servo Brake system.	[5]
		OR	5
Q6)	a)	List out the Front Independent Suspension system and explain any with neat sketch.	one [5]
	b)	Explain with neat sketch of Hand Brake.	[5]
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