B.E. Sixth Semester (Mechanical Engineering) (CGS)

10858: Elective - I: Automobile Engineering: 6 FEME 05

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Time: Three Hours Max. Marks: 80

	Note	 Answer Three question from Section A and three question from Section B. Due credit will be given to neatness and adequate dimensions. Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/black ink/refill only for writing the answer book. 	
		SECTION-A	
1.	a)	Explain with neat sketch working four stroke S.I. engine.	7
	b)	Explain Multiple cylinder engines.	6
		OR	
2.	a)	Explain with neat sketch various component of an Automobile.	7
	b)	What do you meant by firing order in an engine. Explain firing order with suitable example.	6
3.	a)	Explain with neat sketch Mechanical fuel pump. Also state its limitations.	7
	b)	Explain with neat sketch Air and water cooling system.	6
		OR	
4.	a)	Explain with neat sketch By-pass recirculation system.	7
	b)	Discuss Multipoint Fuel Injection System (M.P.F.I) with diagram.	6
5.	a)	Why Starting drives are necessary. Explain with neat sketch Bendix drive.	7
	b)	What is function of injection system. Explain neat sketch Battery injection system.	7
		OR	
6.	a)	Explain with neat sketch Electronic injection system.	7
	b)	Explain Battery Rating and Battery capacity.	7
		SECTION-B	
7.	a)	What is function of clutch? Explain construction and working of single plate clutch.	6
	b)	Why differential is necessary? Explain with neat sketch construction and working of differential.	7
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8.	a)	Explain with neat sketch sliding mesh gear box.	7
	b)	Explain with neat sketch torque tube drive.	6
9.	a)	Explain with sketch Hydraulic braking system.	7
	b)	Explain with neat sketch power steering system.	7
		OR	
10.	a)	Explain the following.	7
		i) Camber	
		ii) King-pin inclination	
	b)	Explain with diagram vacuum brakes.	7
11.	a)	Discuss the characteristic of lubricating oil.	6
	b)	Explain with neat sketch shock absorber.	7
		OR	
12.	a)	What is multi viscosity oil? Why it is used and recommended for lubrication system? Explain.	
	b)	Explain with neat sketch following.	7
		i) Gear-pump	
		ii) Splash lubrication system	

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