	CBCS SCHEME	
USN		15ME655
Sixth Semester B.E. Degree Examination, Jan./Feb. 2021		
Automobile Engineering		
Time: 3 hrs. Max. Marks: 80		
Note: Answer any FIVE full questions, choosing ONE full question from each module.		
1	<ul> <li>a. With a neat sketch explain dry liners and wet liners.</li> <li>b. Explain different types of cylinder arrangement.</li> </ul>	(08 Marks) (08 Marks)
2	OR a. What is the necessity of a cooling system in diesel engines? b. With a neat sketch, explain thermostat and thermosyphon cooling system.	(04 Marks) (12 Marks)
3	<u>Module-2</u> With a neat sketch, explain single plate and cone clutch.	(16 Marks)
4	OR a. Briefly explain the working of drum brake. b. Compare disc and drum types of brakes.	(08 Marks) (08 Marks)
5	<u>Module-3</u> Explain the following commonly used suspension springs: i) Leaf spring	ii) Coil spring. (16 Marks)
6	OR Sketch and explain the working of battery and magneto ignition system.	(16 Marks)
7	a. Differentiate between a turbocharger and super charger. b. Explain any two types of supercharger.	(08 Marks)
		(08 Marks)
8	OR Explain single point and multipoint fuel injection system.	(16 Marks)
9	<u>Module-5</u> Explain air injection and air aspirator system of treating exhaust gas.	(16 Marks)
	OR	
10	<ul> <li>Write short notes on any four:</li> <li>a. Emission standards</li> <li>b. Catalytic converter</li> <li>c. EGR system</li> <li>d. PCV system</li> </ul>	
	e. CRDI engine	(16 Marks)
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