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CBCS SCHEII			
USN		15ME655	
	Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020)	
Automobile Engineering			
Time: 3 hrs. Max. Marks: 80			
Note: Answer any FIVE full questions, choosing ONE full question from each module.			
	Module-1		
1	a. Explain the different types of combustion chambers used in CI engine.	(08 Marks)	
	b. Explain with a neat diagram the lubricating system used in a multi-cylinder engine	(08 Marks)	
	OR	(*********************	
2	a. Explain the significance of valve timing in compression ignition engine with	a suitable	
,	diagram.	(08 Marks)	
-	b. Discuss the working of HCCI engine.	(08 Marks)	
Module-2			
3	a. Explain with a neat sketch the working of torque converter.	(08 Marks)	
ſ	b. Explain Hotchkiss drive with a neat sketch.	(08 Marks)	
a)	OR		
4	a. Explain with a neat sketch the working of hydraulic brake system.	(08 Marks)	
	b. Explain with a neat sketch the working of synchronizing unit of a synchromesh	gear box (08 Marks)	
	Module-3	(00 1/11/185)	
, 3 5	a. Explain with a neat diagram the working of battery ignition system of a mult	i-cylinder	
į	engine.	(08 Marks)	
)	b. Explain with a neat sketch working of air suspension system.	(08 Marks)	
OR			
2 6	a. Explain with a neat diagram the working of electronic ignition system.	(08 Marks)	
)	b. Explain the working of power steering system with a diagram.	(08 Marks)	
	Module-4		
7	a. Explain the working of common Rail Direct Injection system (RDI) with a neat dia	0	
2	b. Explain the working of turbocharger with a neat diagram.	(08 Marks) (08 Marks)	
2		(********************	
") = 8	OR a. Explain the Air fuel ratios for different speeds of a Car with a suitable diagram.	(08 Marks)	
0	b. List the alternate fuels for compression ignition engine and explain any two.	(08 Marks) (08 Marks)	
2	Module-5		
v 9	a. Explain how EGR (Exhaust Gas Recirculation) system reduces emission of NC	(Oxide of	
	Nitrogen).	(08 Marks)	
	b. Explain with a neat diagram, evoportier loss control system.	(08 Marks)	
	OR		
10	a. Explain the working of catalytic converter with the help of a neat sketch.	(08 Marks)	
	b. List the different emission for compression ignition engine ancle x alain the reas formation of these emissions.	(08 Marks)	
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