15ME655

Sixth Semester B.E. Degree Examination, July/August 2021 **Automobile Engineering**

Tin	ne: 3	hrs. Max. Mar	ks: 80
Note: Answer any FIVE full questions.			
1		List out the components of Automotive engine. Give its function and mention the rused to manufacturing of components.	materials (08 Marks)
	b. '	What are the various methods of Engine Cooling? Explain with neat sl	
2	0,	With neat sketch, explain the Overhead Valve Mechanism method.	(08 Marks)
L	a. b.		(08 Marks)
3	a.		(10 Marks)
	b.	With neat sketch, explain the working the construction and working principle o	f different (06 Marks)
4	a.		(08 Marks)
	b.	What is Anti – lock Braking System (ABS)? With neat sketch, explain the working	
	9	of Disc Brake.	(08 Marks)
5	a.	What is Steering Geometry? Define the following: i) Camber ii) Caster	
)8	(08 Marks)
			(08 Marks)
6	a.	=p	(08 Marks)
		Explain the working of Vacuum advance and state the advantages of Electron	
		system.	(08 Marks)
7	a.	What are the effect of Supercharging on Engine performance? With neat sketch	h, explain
•			(08 Marks)
	b.	With neat sketch, explain Working principle of Turbo charging.	(08 Marks)
8	a.	What is Cetane and Octane numbers? With neat sketch, explain single Point Fuel I	njection
			(05 Marks)
9	b.	Briefly explain some of the alternate fuels can be used for IC engines.	(05 Marks)
	C.	Discuss briefly Mixture requirements for steady state operation of an SI engine.	(06 Marks)
9	a.	Briefly explain the different types of emissions from IC engines.	(08 Marks)
			(08 Marks)
10	a.	Explain Euro 1 and Euro II Norms.	(04 Marks)
10		Explain Baro 1 and 2 and 1 and 1	(06 Marks)
		How can the motor vehicle be registered? Explain.	(06 Marks)
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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.