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Q.P. Code: 16ME315

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech III Year I Semester Regular Examinations November/December 2018 AUTOMOBILE ENGINEERING

(Mechanical Engineering)

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Time: 3 hours Max. Marks:			C
		(Answer all Five Units $5 \times 12 = 60 \text{ Marks}$) UNIT-I	
1	a	Explain the direct injection type combustion chamber in C.I Engine	6M
	b	List & Explain the different types of Combustion Chamber in C.I Engine	6M
OR			
2	a	List out the components of I.C engine and its function	7M
	b	Explain in detail with neat sketch about Rear wheel drive in Automobile engine	5M
		UNIT-II	
3	a	Explain the fuel supply system in diesel engine with line diagram	7M
	b	Explain the working of turbocharging with a neat sketch	5M
		OR	
4		Explain the working of turbocharging with a neat sketch	7M
	b	Discuss the effects of emissions on human health	5M
		UNIT-III	
5		hat are the different types water cooling systems used in an automobile? Explain any	12M
	or	ne of it with neat diagram OR	
6	0	Explain the grading phenomena of Lubricant.	7M
U		What is the function of Engine Lubrications.	5M
	D	UNIT-IV	3111
7	E	xplain in details about Universal Joint with neat diagram.	12M
		OR	
8	E	splain in details about Differential used in automobile with neat diagram.	12M
		UNIT-V	
9	a	Explain in detail about Vacuum Braking system with neat sketch	7M
	b	Discuss about shock absorber in detail	5M
		OR	
10	a	Discuss clearly how the Pneumatic braking system works.	7M
	b	Explain about Torque Bar	5M

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