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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR					
(AUTONOMOUS) B.Tech III Year I Semester Supplementary Examinations Feb-2021					
AUTOMOBILE ENGINEERING					
(Mechanical Engineering)					
Time: 3 hours Max. Marks: 60					
		(Answer all Five Units $5 \times 12 = 60$ Marks)			
		UNIT-I			
1	a	What is Combustion? Explain the different types of Combustion Process.	6M		
	b	Explain the direct injection type combustion chamber in C.I Engine.	6M		
OR					
2	a	Explain front and rear wheel drive layout in detail with relevant sketch.	6M		
	b	List & Explain the different types of Combustion Chamber in C.I Engine.	6M		
3		UNIT-II	014		
3	a b	Explain the working of supercharger with a neat sketch. What are the advantages and disadvantages of supercharger?	8M 4M		
	OR OR				
4	a	Explain the various needs of alternative fuels.	7M		
<b>b</b> What are the various types of alternate fuels available and mention their importance.			<b>5M</b>		
UNIT-III					
5		What is meant by Ignition? List out the types of Ignition System.	6M		
	b What is the need of Ignition System used in Automobile? 6				
6	a	What is mean by Engine cooling system? List out the different types of Cooling	5M		
		system.	UIVI		
	b	State the necessity of Engine cooling system.	<b>7M</b>		
		UNIT-IV			
7	a	What are the different functions of Clutch?	6M		
	b	Discuss in detail about the fluid coupling.	6M		
8	a	<b>OR</b> What are the different materials used for manufacturing of Clutch.	6M		
Ū		List out the required properties needed for material used for manufacturing of	6M		
		clutch.			
		UNIT-V			
9		Explain about Steering Gears.	6M		
	b Discuss clearly about Steering Mechanism. 6M				
10	•	OR Explain about Torque Par	614		
10		Explain about Torque Bar. Discuss about shock absorber in detail.	6M 6M		
	U	Discuss about shoek absorber in detail.	UIVI		

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