Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech IV Year I Semester Regular Examinations November/December-2022 AUTOMOBILE ENGINEERING

(Mechanical Engineering)

(Mechanical Engineering)			
Time:	3 hours	Max. Ma	rks: 60
(Answer all Five Units $5 \times 12 = 60$ Marks)			
UNIT-I			
1	a Define the following terms.	L1	6M
	i) Engine ii) Heat Engine		
	b Define the following terms.	L1	6M
	i) Rear wheel drive ii) Front wheel drive		
OR			
2	a Define combustion? Explain the different types of combustion process.	L1	6M
	b Explain the direct injection type combustion chamber in CI Engine.	L1	6M
	UNIT-II		
3	a Explain the following terms	L1	6M
	i) Emission norms ii) Types of pollutants		
	b Explain the working of turbocharger with a neat sketch.	L1	6M
	OR		
4	a What are the advantages and disadvantages of turbocharger.	L1	6M
	b Explain the various needs of alternative fuels.	L2	6M
	UNIT-III		
5	a Explain the following terms	L1	6M
	i) Ignition system ii) Types of ignition system		
	b Write the uses of various components used in Horn System.	L1	6M
,	OR	T 1	(3.5
6	a State the necessity of bendix drive.	L1	6M
	b What is the function of engine lubrication.	L1	6M
_	UNIT-IV		
7	a What is the function of fluid coupling and state its merits.	L1	6M
	b What are the different functions of clutch.	L1	6M
0	OR	. T1	101/4
8	What are the different types gear boxes used in an automobile? Explain any one of it with neat diagram.	n L1	12M
	UNIT-V		
0	THE CONTROL OF THE PROPERTY OF	T 1	CM
9	a Elucidate about Torque Bar.b Discuss about shock absorber in detail.	L1	6M
	OR	L1	6M
10	Describe about Ackerman steering gear Mechanism with the help of a nea	t L1	12M
10	layout.	. 11	14111
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