R18

10M

5M

5M

10M

L2

L2,L3

L2,L3

with neat sketch.

10 a Explain about Torque Bar.

	Q.P. Code: 18ME0325	N	10
	Reg. No:		
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTT	UR	
	(AUTONOMOUS)		
	B.Tech IV Year I Semester Regular Examinations Febrauary-2022		
	AUTOMOBILE ENGINEERING		
	(Mechanical Engineering) Time: 3 hours Max.	Marks	. 60
	PART-A	iviaiks.	. 00
	(Answer all the Questions $5 \times 2 = 10$ Marks)		
1	a Distinguish between real wheel drive and front wheel drive.	L2	2M
	b Name any Five components used in fuel supply system.	L1	2M
	c List the functions of ignition system.	L1	2M
	d List the functions of clutches.	L1	2M
	e State the functions of steering gears.	L1	2M
	(Answer all Five Units 5 x $10 = 50$ Marks)		
	(Allswer all Five Offics 5 x 10 – 30 Marks)		
2	a Classify the automobile engines.	. L4	5M
4	b Explain the direct injection type combustion chamber in C.I Engine.	L2	5M
	OR		01.1
3	Explain the following indirect injection type combustion chamber in C.I Engine with	L2,L3	10M
	neat sketch. (i) Swirl Chamber (ii) Pre Combustion Chamber (iii) Air Cell or Energy		
	Cell		
	UNIT-II		
4	Name various types of emissions produced from diesel and petrol engines and state the	L1	10M
	reasons for their production. OR		
5		L2	5M
	b List out the advantages and disadvantages of supercharger.	L1	5M
	UNIT-III		
6		L2,L3	10M
	OR	,	
7	a Describe the functions of engine lubrications.	L1	5M
	b Explain the properties of engine lubrications.	L2	5M
	UNIT-IV		
8		L1	5M
	b Describe in detail about the torque converter.	L1	5M

END

OR

UNIT-V

Name the different types gearboxes used in an automobile and explain any one of it L1,L2

b Explain in detail about vacuum braking system with neat sketch.

11 Explain briefly about the Davis steering mechanism with neat sketch.