



Regulation R18

Subject code:2P5CD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, February 2024**AUTOMOBILE ENGINEERING**

(Mechanical Engineering)

Maximum Marks: 70

Date: 22.02.24

Duration: 3 Hours**Note:** This question paper contains two parts A and B.

2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.

3. Part B consists of 5 Units. Answer any one full question from each unit.

4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(10X2M=20 Marks)	CO	BTL
1	Classify types of automobile engines.		CO1	L2
2	Write the principle of clutch.		CO1	L1
3	What are the functions of an ignition system?		CO2	L1
4	Define GDI systems?		CO2	L1
5	Name of the different types of alternative fuels.		CO3	L1
6	What are the functions of suspension system.		CO3	L1
7	What are air injection systems?		CO4	L1
8	Classify different types of brakes?		CO4	L2
9	Write the applications of CNG as alternate fuel		CO5	L1
10	Write the demerits of Hydrogen as a fuel for IC Engines.		CO5	L1

Part-B

Answer all the questions		(5X10M=50Marks)		
11	Write about engine lubrication and water cooling systems? [10]		CO1	L1
	OR			
12	Explain about MPFI and GDI Systems. [10]		CO1	L2
13	Write about CRDI and TDI Systems. [10]		CO2	L1
	OR			
14	Write about independent suspension system. [10]		CO2	L1
15	What are the functions of universal joint and Propeller shaft? [10]		CO3	L1
	OR			
16	Explain about the starting system of automobile. [10]		CO3	L5
17	Write about the International Pollution standards? [10]		CO4	L1
	OR			
18	Explain about Davis steering mechanism with neat sketch. [10]		CO4	L5
19	Discuss the techniques of pollution control. [10]		CO5	L2
	OR			
20	Write about Biomass, alcohols and LPG as alternate fuels. [10]		CO5	L1