



R18 Regulation

Subject code:2P5CD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, May 2025

AUTOMOBILE ENGINEERING

(ME)

Maximum Marks: 70

Date: 24.06.2025

Duration: 3 hours

- Note: 1. 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)		Marks	CO	BTL
1	What is the function of fuel injection systems?	2M	1	L1
2	What is mean by IC Engines	2M	1	L1
3	Define cooling systems.	2M	2	L1
4	Write the starting system of automobile.	2M	2	L1
5	What is the function of clutch?	2M	3	L1
6	What is function of shock absorbers are in an automobile?	2M	3	L1
7	What is the function of a propeller shaft?	2M	4	L1
8	What is meant by Toe-in in steering system?	2M	4	L1
9	Write the applications of CNG as alternate fuel.	2M	5	L1
10	Write the demerits of Hydrogen as a fuel for IC Engines.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Briefly explain different types of carburetors.	10M	1	L2
	OR			
12	Explain solex carburetor with neat sketch.	10M	1	L2
13	Briefly explain fuel injection systems with neat sketch.	10M	2	L2
	OR			
14	Explain water cooling system with diagram.	10M	2	L2
15	Sketch and explain various steering geometries.	10M	3	L2
	OR			
16	Describe in detail about single plate clutch with a neat diagram.	10M	3	L2
17	What is the function of a shock absorber?	10M	4	L2
	OR			
18	Explain hydraulic brake system with neat sketch.	10M	4	L2
19	Discuss the techniques of pollution control.	10M	5	L2
	OR			
20	Write about Biomass, alcohols and LPG as alternate fuels.	10M	5	L2