



R18 Regulation

Subject code: 2P5CD

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, November 2025

## AUTOMOBILE ENGINEERING

(ME)

Maximum Marks: 70

Date: 10.11.2025

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 function of carburetor?	2M	1	L1
2	What is function of fuel injection system	2M	1	L1
3	What do you mean by spark advance and retard mechanism?	2M	2	L1
4	Define Chassis.	2M	2	L1
5	What is MPFI system?	2M	3	L1
6	Define contact brakers	2M	3	L1
7	What is air injection systems.?	2M	4	L1
8	Classify different types of brakes?	2M	4	L1
9	Write the disadvantages of hydrogen as fuel?	2M	5	L1
10	What are the merits of biomass?	2M	5	L1

### Part-B

Answer All the following questions. (5X10M=50Marks)

		Marks	CO	BTL
11	Explain fuel supply system in S.I. engine with neat sketch	10M	1	L2
	OR			
12	Briefly Explain air filters with neat diagram.	10M	1	L2
13	Explain coil Ignition systems with neat sketch.	10M	2	L2
	OR			
14	What are the functions of universal joint and Propeller shaft?	10M	2	L2
15	Classify the different types of steering mechanisms for cars.	10M	3	L2
	OR			
16	Differentiate between Torque tube and Hotch-kiss drive.	10M	3	L2
17	Write about the International Pollution standards.	10M	4	L2
	OR			
18	Explain about Davis steering mechanism with neat sketch.	10M	4	L2
19	Explain few important pollutions control techniques in IC engines.	10M	5	L2
	OR			
20	Write different types of alternative fuels.	10M	5	L2