



R18 Regulation

Subject code:2P5CD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, December 2024

AUTOMOBILE ENGINEERING

(ME)

Maximum Marks: 70

Date:03.01.2025

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 which carries 10M.
 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	Bloom Tx
1	What is function of carburetor?	1	L1
2	What is function of fuel injection system	1	L1
3	What do you mean by spark advance and retard mechanism?	2	L1
4	Explain the starting system of automobile.	2	L1
5	What is MPFI system?	3	L1
6	Define contact breakers	3	L1
7	What is the function of a propeller shaft?	4	L1
8	Write different types of braking system?	4	L1
9	Write the applications of CNG as alternate fuel	5	L1
10	Write the demerits of Hydrogen as a fuel for IC Engines.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
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 the functions of Fuel-injector with neat sketch. [10M]	2	L2
OR			
14	Explain the functions of universal joint and Propeller shaft with neat sketch. [10M]	2	L2
15	Classify the different types of steering mechanisms for cars. [10M]	3	L2
OR			
16	Differentiate between Torque tube and Hotchkiss drive. [10M]	3	L2
17	Explain Davis steering mechanism with neat sketch. [10M]	4	L2
OR			
18	Explain about Ackermann steering mechanism with neat sketch. [10M]	4	L2
19	Explain few important pollution control techniques in IC engines. [10M]	5	L2
OR			
20	Write different types of alternative fuels. [10M]	5	L2

