



Regulation R18

Subject code:2P5CD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, January 2023

AUTOMOBILE ENGINEERING

(Mechanical Engineering)

Maximum Marks: 70

18-01-2023

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)

- 1 What is function of carburetor?
- 2 What is function of fuel injection system?
- 3 What do you mean by spark advance and retard mechanism?
- 4 Explain the starting system of automobile.
- 5 What is the function of clutch?
- 6 What is function of shock absorbers in an automobile?
- 7 What do you mean by master cylinder?
- 8 Explain the king pin rake.
- 9 Write the advantages of hydrogen fuel?
- 10 Write the demerits of biomass?

Part-B

Answer all the questions

(5X10M=50Marks)

- 11 Explain fuel supply system in S.I. engine with neat sketch. [10]
OR
- 12 Briefly Explain air filters with neat diagram. [10]
- 13 Explain coil Ignition system with neat sketch. [10]
OR
- 14 Explain water cooling system with diagram. [10]
- 15 Sketch and explain various steering geometries. [10]
OR
- 16 Describe in detail about single plate clutch with a neat diagram. [10]
- 17 Explain the mechanical brake system with neat sketch. [10]
OR
- 18 Briefly describe the multipoint fuel injection in S.I. engines. [10]
- 19 Explain Davis steering mechanism with neat sketch. [10]
OR
- 20 Briefly explain various methods of pollution controls systems in automobiles. [10]