



Regulation R17

Subject code: 1E5CE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech III Year I Semester Supplementary Examinations, July 2022

AUTOMOBILE ENGINEERING

Mechanical Engineering

Maximum Marks: 70

Date: 07.07.2022

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 How are automobiles classified?
- 2 What is the function of a stabilizer?
- 3 Define bouncing, pitching and rolling?
- 4 Define Chassis.
- 5 What is MPFI system?
- 6 Define contact brakes
- 7 What is the function of a propeller shaft?
- 8 What is meant by Toe-in and Toe-out?
- 9 What are the basic characteristics of a brake fluid?
- 10 What is the basic function of a canister?

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 Discuss about the chassis and body components in automobile. 10
OR
- 12 Classify the different types of carburetors. 10
- 13 What is the function of Fuel-injection holder? 10
OR
- 14 What are the functions of universal joint and Propeller shaft? 10
- 15 Classify the different types of steering mechanisms for cars. 10
OR
- 16 Differentiate between Torque tube and Hotch-kiss drive. 10
- 17 What are the functions of a shock absorber? 10
OR
- 18 Explain hydraulic brake system with neat sketch. 10
- 19 Briefly explain about alternative fuels. 10
OR
- 20 Explain the emission standards for pollution control. Describe Euro-IV norms for passenger cars. 10