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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**(AUTONOMOUS)****B.Tech III Year I Semester Supplementary Examinations December-2021****AUTOMOBILE ENGINEERING****(Mechanical Engineering)**

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Explain with neat sketch about Abnormal Combustion Process. L2 6M
 b Define the terms Chassis, Frame & Body. L1 6M

OR

- 2 a Explain front and rear wheel drive layout in detail with relevant sketch. L2 6M
 b List & Explain the different types of Combustion Chamber in C.I Engine. L2 6M

UNIT-II

- 3 Name various types of emissions produced from diesel and petrol engines and also mention the reasons for their production. L1 12M

OR

- 4 a Explain the fuel supply system in diesel engine with line diagram. L2 6M
 b Discuss the effects of emissions on human health. L6 6M

UNIT-III

- 5 Explain with the help of a neat diagram about working of a magnetic coil ignition system. L2 12M

OR

- 6 a What is meant by Ignition? List out the types of Ignition System. L1 6M
 b What is the need of Ignition System used in Automobile? L1 6M

UNIT-IV

- 7 Explain in details about Differential used in automobile with neat diagram. L2 12M

OR

- 8 a Discuss in detail about the torque converter. L6 6M
 b Define briefly about over drive. L1 6M

UNIT-V

- 9 a Explain in detail about Vacuum Braking system with neat sketch. L2 6M
 b Discuss clearly how the Pneumatic braking system works. L6 6M

OR

- 10 Explain with the help of a neat layout about Ackerman steering gear Mechanism. L2 12M

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