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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**(AUTONOMOUS)****B.Tech III Year I Semester Supplementary Examinations August-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. 6M
 b Define the terms Chassis, Frame & Body. 6M

OR

- 2 a How do you Classify the different types of combustion process? 6M
 b Explain in detail about different types of Automobiles. 6M

UNIT-II

- 3 a Explain in detail about the CRDI engines. 8M
 b Write the merits and demerits of CRDI fuel supply system. 4M

OR

- 4 a Explain the fuel supply system in diesel engine with line diagram. 7M
 b Discuss the effects of emissions on human health. 5M

UNIT-III

- 5 a What is the function of Engine Lubrications? 6M
 b Explain the properties of Engine lubrications. 6M

OR

- 6 a Explain the grading phenomena of Lubricant. 5M
 b Explain about any one type of Lubrication Filters. 7M

UNIT-IV

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

OR

- 8 a Explain in details about Front Axle with neat diagram. 6M
 b Define briefly about torque tube drive. 6M

UNIT-V

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

OR

- 10 a Answer all the following questions 8M
 Define ABS?
 Define EBS
 b Discuss about Traction control. 4M

*** END ***