

O.P.Code: 19ME0327

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H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech IV Year I Semester Supplementary Examinations June-2024
AUTOMOBILE ENGINEERING

(Mechanical Engineering)

Time: 3 Hours

Max. Marks: 60

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

UNIT-I

- 1 a How do you Classify the automobile engines? CO1 L1 6M
b Explain in detail with neat sketch about Rear wheel drive in Automobile engine. CO1 L2 6M

OR

- 2 a What are the materials used for the Components of I.C engine? CO1 L2 6M
b Explain in detail about different types of Automobiles. CO1 L2 6M

UNIT-II

- 3 a Explain the various needs of alternative fuels. CO2 L2 6M
b Explain in detail about the CRDI engines. CO2 L3 6M

OR

- 4 Name various types of emissions produced from diesel and petrol engines and also mention the reasons for their production. CO2 L4 12M

UNIT-III

- 5 a Write the uses of various components used in Horn System. CO3 L2 6M
b State the necessity of Bendix Drive. CO3 L4 6M

OR

- 6 Describe with neat sketch about Starting System in automobile CO3 L3 12M

UNIT-IV

- 7 a Discuss in detail about the fluid coupling. CO4 L2 6M
b Discuss in detail about the torque converter. CO4 L3 6M

OR

- 8 a Define briefly about torque tube drive. CO4 L2 6M
b Discuss in detail about propeller shaft. CO4 L2 6M

UNIT-V

- 9 Discuss about Hydraulic Brake System with the help of line diagram. CO5 L3 12M

OR

- 10 Describe about Ackerman steering gear Mechanism with the help of a neat layout. CO5 L4 12M

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