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Question Paper Code : 91849

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Sixth/Seventh/Eighth/Tenth Semester

Mechanical Engineering

ME 6602 – AUTOMOBILE ENGINEERING

(Regulations 2013)

(Common to Mechanical Engineering (Sandwich)/Mechatronics Engineering/
Robotics and Automation Engineering)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. What is a forward control vehicle ?
2. Brief about frameless construction.
3. Mention the importance of ignition systems in automobiles.
4. Contrast between BS 4 and BS 6 emission norms.
5. Expand AMT.
6. Discuss about any one variable velocity joint used in driveline of a vehicle.
7. Distinguish between understeer and oversteer.
8. List the components of Anti-Lock Braking system.
9. Mention the major constituent of natural gas.
10. List any 2 merits of electric vehicles.

PART – B

(5×13=65 Marks)

11. a) With a neat schematic layout, describe the constructional details and power flow in a Front Engine Front Drive vehicle. (13)
(OR)
- b) With aid of suitable sketch, summarize the relevant aerodynamic forces and its influenced moments acting upon a fast moving vehicle. (13)