

Sem. VIII / Mech (CBQS) / Auto. Engg. / 30.05.16

Automobile Engg.

Q.P. Code : 729702



( 3 Hours )

[ Total Marks : 80

- N.B. 1. Question No.1 is compulsory  
2. attempt any three out of remaining questions  
3. Draw neat sketches to illustrate your answers  
4. Figures to the right indicate full marks.

1. With the help of neat sketch explain in brief; 20
- a) Transmission system
  - b) Air Brake system
  - c) Starting system (Bendix drive)
  - d) Steering geometry
2. Write a short note on 20
- a) Leading and trailing shoe
  - b) Battery ratings
  - c) Aerodynamics
  - d) Fluid coupling.
3. A) Enlist the sensors used in modern automobiles with their functions in brief 14  
B) Describe tubeless tyre and its advantages 6
4. A) What is the necessity of gear box? Explain the trouble shooting and remedies of gear box. 10  
B) Explain with sketch Mac Pherson suspensions used in cars, with its advantages 10
5. A) Discuss in brief various types of batteries. Explain the working of Lead Acid Battery. 10  
B) Discuss the following 10
- i) Alternator versus Generator
  - ii) Overrunning clutch
6. A) Discuss; Open, Semi Integral and Integral structures 10  
B) Draw the circuit diagram and explain the working of combined Current and Voltage Regulator. 10
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