

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) Drum Brakes
 - b) Tandem master cylinder
 - c) Differential
 - d) Hydraulic torque converter

2. Write a short note on 20
 - a) ABS
 - b) ZEBRA
 - c) Aerodynamics
 - d) Overdrive

3. A) With the help of neat sketch explain Rack and Pinion Steering Gear 14
B) Discuss factors affecting tyre life 6

4. A) What is the necessity of gear box? explain the working of Constant Mesh gear box 10
B) Explain with sketch Wishbone suspensions used in cars, with its advantages 10

5. A) Explain in detail the working of ECM in a vehicle 14
B) Discuss the Electrical System 6

6. A) Discuss; Open, Semi Integral and Integral structures 14
B) What is Battery ratings? 6
