BEISEM VIII / CBGS/MECH/ DEC 16 | Automobile Engg.

Q.P. Code: 729703 16-12-2016 (3 Hours) EXA [Total Marks: 80] 1) **Question No.1** is compulsory. N.B. 2) Attempt any three out of remaining questions. 3) Draw neat sketches to illustrate your answers. 4) Figures to the right indicate full marks. 20 With the help of neat sketch explain in brief: 1. (a) Steering linkages for rigid axle suspension. (b) Hydraulic Braking system. (c) Over running clutch drive. (d) Toe-in and Toe-out. Explain its significance. Write a short note on: 20 2. (a) Disk brakes. (b) Lead Acid Battery. (c) Super structure. (d) Clutch. (a) Discuss three modern trends in automobiles with their features and 3. advantages. (b) Describe radial ply tyres and its advantages. 06 (a) What is the necessity of gear box? Explain the working of synchro 10 4. mesh gear box. (b) Explain with sketch, coil spring front suspensions system, with its 10 advantages. (a) Discuss in brief various types of batteries. Explain the working of 5. 10 Alkaline Battery. (b) Discuss the following: 10 i) Alternator, working principle and advantages. ii) Bendix drive. Discuss; Importance of Body design and materials for body construction. (b) Draw circuit diagram and explain the working of Voltage Regulator (cut-out).
