Exam. Code: 0943 Sub. Code: 7066

1079

B. Engg. (Mechanical Engg.) 7th Semester

Time allowed: 3 Hours

NOTE:

I.

II.

III.

IV.

MEC-703: Automobile Engineering Attempt five questions in all, including Q. No. 1 which is compulsory and (a) Why frame is narrow at the front? Why we provide Gear box in a vehicle? (b) What are the types of oil supply systems? (c) What is the function of choke value in the carburettor? (d) (e) What are the primary objectives of lubrications? What do you mean by hydrodynamic lubrication? (f) (g) Why epicyclic gear is used in automatic gear system? What are the resistance forces which effect the movement of an (h) What do you understand from the terms oversteer and understeer? (i) (j) What is the function of an ignition coil? (10×1) UNIT-I What is double declutching? (a) Explain the working of torque converter and draw performance curves. (b) What is the contribution of automobiles towards pollution of the (a) atmosphere? What is crank case ventilation and how is it achieved? Explain with a neat sketch about sliding mesh Gear box. (b) (6+4)What are The methods of fuel injection in Diesel engine? Explain. (a) What are the different methods of Engine cooling systems? Explain water (b) cooling systems. (5+5)**UNIT-II** Write short notes on: -Types of tyres and designations (a) **ABS** (b) (3+4+3)Injection Pump (c)

V.

How can you classify the brakes? Explain in detail hydraulic brake system with VI.

neat sketch. Explain the working of CVT. How it is advantageous than conventional

VII. transmission system? _*_*_