

M. Tech - 2 Sem

Roll No.

23017

**M. Tech. 3rd Semester
Examination – January, 2012**

AUTOMOBILE ENGG.

Paper : 970

Time : Three hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any five questions.

1. (i) Discuss the Ignition system in four stroke petrol engine. 10
- (ii) Discuss the cooling system in vehicle. 10
2. How Suspension system plays a major role in safety of motor vehicle. Discuss various types of suspension systems used in automobile section. 20

3. Explain the working of Differentials with neat sketch. 20
4. (i) Explain the two circuit brake system in vehicle. 10
- (ii) Explain the following temes. 10
- (a) ABS
- (b) ASR
- (c) ESP
5. How climate control carried out in interior system of vertices and also explain HVAC. 20
6. (i) Explain the power supply system of vehicles. 10
- (ii) Discuss the OBD systems 10
7. Explain the following terms : 20
- (i) ECU
- (ii) SUV, PANELS
- (iii) EMC

8. Write short notes on following :

20

(i) Wheel alignment

(ii) Glazing system

(iii) Brake Booster