Roll No

FT - 304

B.E. III Semester

Examination, December 2012

Heavy Vehicle Automobile Engineering And Safety

Time: Three Hours

Maximum Marks: 70/100

Note: Attempt all questions.

UNITI

- (a) Define compression ratio. How does it affect the horse power of an engine.
 - (b) Give classification of Internal combustion engine.

OR

- 2. (a) What are main parts of a friction clutch? Describe the function of each part.
 - (b) Describe the construction and working of a single plate clutch with the help of neat sketch.

UNITII

3. Describe the construction and working of a differential.

OR

- 4 (a) Give a classification of brakes.
 - (b) What is the function of master cylinder in hydraulic Brakes.

Unit - III

- 5. a) "Battery is the heart of electrical system in an automobile". Explain.
 - Explain the chemical reactions in lead-acid battery during charging and discharging.

OR

- a) What is the function of ignition system in a automobile.
 - With the help of neat sketch describe the function of spark plug.

Unit-IV

Explain the construction and working of water tender.

OR

Describe briefly the different lubricating system.

Unit - V

Sketch and describe the working of a water cooling system.

OR

Describe the two mechanism of steering gear.
