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Roll No

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FT - 304

B.E. III Semester

Examination, December 2013

Heavy Vehicle Automobile Engg. and Safety

Maximum Marks : 70

Note: Draw the sketches wherever necessary.

Write the answers to the points.

Unit - I

1. a) What is the function of carburetor in S.I. engine? Explain any one type of it with diagram.

b) Write a note on combustion in C.I. Engines.

OR

2. a) What is the function of a clutch in an automobile? Explain any one type of it with constructional detail.

b) Explain the working of 4 stroke diesel engine by the help of diagram.

Unit - II

3. What do you mean by suspension system of an automobile? What are its types used in automobiles. Explain any one with sketch.

OR

4. What are the effects of steering geometry on directional stability? Also explain castor, camber and king pin inclination with sketch.

Unit - III

5. a) Explain the merits and demerits of electronic ignition system over battery ignition system.

b) Write a short note on euro norms adopted in India.

OR

6. Justify the statement "auto mobiles are one of the main cause of air pollution".

Also explain the pollution control techniques adopted now a days.

Unit - IV

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7. How automobile accidents can be prevented? What are the CMV rules regarding safety devices for drivers and passengers?

OR

8. Write in detail about construction, operation and applications of fire fighting vehicles.

Unit - V

9. How an automobile can be made more safe for drivers and passengers? Write in detail about the safety devices and safety arrangements which can make an automobile more safe.

OR

10. Write short note on any two from the following:

a) Rules and Regulations of RTO.

b) Construction and operation of fire boats.

c) Lubrication systems in automobiles.

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