

Code No : 9A03606/R09

B.Tech III Year II Semester Regular & Supplementary Examinations

April/May - 2013

Set-4

AUTOMOBILE ENGINEERING

(Mechanical Engineering)

Time: 3 Hours

Max. Marks: 70

Answer any FIVE Questions

All Questions carry equal marks

- - -

1. Explain the following,
 - (a) Rear wheel drive
 - (b) Front wheel drive.

2. (a) How are injection system classified? Describe them briefly. Why the air injection system is not used now a days?
 - (b) Sketch a mechanical fuel pump and describe its working principle.

3. (a) What is the film coefficient? On what factors the film coefficient generally depends?
 - (b) Compare air cooling and water cooling systems.

4. (a) What is the different exhaust gas after treatment tried to reduce pollutants?
 - (b) How evaporate emission control is achieved in SI engines?

5. (a) What are the various types of starting drives in automobile engine?
 - (b) Explain with neat sketch any one type of starting drive.

6. What is a torque converter? Why it is used in some vehicles?

7. Define camber angle. What is the function of camber in vehicle?

8. Give a neat sketch, explain the construction and working of a hydraulic shock absorber.