

Automobile Engineering
(ME-305, Dec. 2004)

Time: 3 Hours

Max. Marks: 60

Note: Question No. 1 is compulsory. Attempt any four questions from section B and two questions from section C.

Section-A

1. (a) What is the function of a gasket?
(b) What are the functions of piston rings?
(c) What is the purpose of air cleaner?
(d) Why the carburetor float made hollow?
(e) What is the necessity of engine lubrication?
(f) What is the function of a thermostat?
(g) What is the material used for leaf spring?
(h) Why do we have a differential in automobile?
(i) What do you understand by power steering?
(j) What is a leading shoe?

Section-B

2. Explain briefly the commonly used oil additives.
3. Explain in brief different method of engine lubrication.
4. Explain with the help of a neat sketch the construction of a propeller shaft.
5. Discuss various factors of wheel alignment.
6. Discuss in brief the various factors affecting tyre life.

Section-C

7. Explain the idling system of a Carburetor.
8. Describe a battery ignition system used in automobiles.
9. Write notes on:
 - (a) Mechanical brakes
 - (b) Shock absorbers

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