

**Automobile Engineering**  
**(ME-5<sup>th</sup>, ME-305, Dec-07)**

**Section-A**

- 1). a). What do you mean by automobile engineering?
- b). What are the functions of air cleaner?
- c). Discuss in brief about lubrication.
- d). What is thermostat?
- e). What do you mean by a clutch?
- f). Define camber of steering system.
- g). What do you mean by shock absorbers?
- h). Define servo brakes.
- i). Discuss preventive maintenance of a vehicle.
- j). What is injection pump?

**Section-B**

- 2). Draw the general layout of a vehicle and explain its main components in brief.
- 3). Explain the various objectives of lubricants.
- 4). What is transmission system? Explain the principle of automobile transmission system.
- 5). Explain the complete procedure of wheel alignment of a car.
- 6). Describe the working of a differential with neat sketch.

**Section-C**

- 7). Explain the working and main components of water cooling system for diesel engine.
- 8). What are the functions of a suspension system? Explain telescope shock absorber with neat sketch.
- 9). How can you classify the brakes? Explain in detail hydraulic brake system with neat sketch.