

ME-704
B. E. (Seventh Semester) EXAMINATION, Dec, 2014
B.E. VII Semester
Automobile Engineering
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Unit —I

1. (a) Differentiate between front and rear wheel drives of automobiles.
(b) Write main functions of frame. What are the positive points of a utilized frame over conventional frame.
2. (a) What is the function of steering system in an automobile? Explain toe in and toe out.
(b) Explain a rack and pinion steering linkage system.
3. a) What is power steering system ? what are the main componenets of the power steering system?
b) What is transmission system ? Enumerate the requirements of good transmission system?
4. (a) Explain the constructional details and working of single plate clutch.
(b) What is a Torque converter . Explain its characteristics.
5. (a) What is the function of damper in suspension system? Describe the working principle Gas charged damper.
(b) What do you understand by power brakes? Explain the operating principle of pneumatic power brake.
6. a) Describe the constructional details of lead – acid battery .
b) What are the requirements of starting motor of an automobile?
7. (a) What are different pollutants in automobile emission?
(b) Explain the constructional detail and working of catalytic converter.
8. Write short notes on any four
 - i) Epicyclic gear box
 - ii) Construction of Automobile tyre
 - iii) Differential
 - iv) Lighting system of a car
 - v) Euro I and II Norms
 - vi) Intelligent control system