

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

- I. (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. www.rgpvonline.in

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. www.rgpvonline.in
- (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