

Roll No

ME-7002 (CBGS)**B.E. VII Semester**

Examination, November 2018

Choice Based Grading System (CBGS)**Automobile Engineering***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

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1. a) What is a chassis in an automobile? Describe its various types in brief.
b) What is the importance of visibility of driver? How do you improve it?
2. a) Differentiate between a front and rear wheel drive vehicle.
b) Explain the terms camber, kingpin inclination, castor and included angle.
3. a) Explain the working of multiple clutch.
b) What is automobile transmission? How do you achieve it? <https://www.rgpvonline.com>
4. a) Explain the principle of hydrostatic drive.
b) Discuss different types of springs used in transmission system.

5. a) What are the characteristics of good braking system?
b) How does a tyre specified? What are commonly used tyre material? <https://www.rgpvonline.com>
6. a) Explain the operating principle of lead acid battery.
b) Why wheel alignment is needed? How do you do it?
7. a) Discuss Indian standards for automobile emissions.
b) List various techniques for reducing emission.
8. Write short notes on any three.
 - i) Location of engine in an automobile.
 - ii) Toe in and toe out conditions.
 - iii) Pneumatic power brake.
 - iv) Lighting system of a vehicle.

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