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Roll No

ME-7002-CBGS

B.E. VII Semester

Examination, December 2020

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.

1. a) Write in detail classification of automobiles.
b) Differentiate between unitized chassis and framed chassis.
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 various steering geometry.
b) How will you achieve power steering in a vehicle? Explain with neat sketch.
4. a) Explain the principle of hydrostatic drive.
b) Discuss different types of springs used in transmission system.

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5. a) Sketch and explain the construction and working of a torque converter.
b) What is the need of independent suspension system? How is it achieved in front and rear wheel suspension?
6. a) What are the different types of brake system used in automobile? Explain the working of one of them with the help of neat sketch.
b) What is need of differential gear in an automobile? Explain its working.
7. a) Write notes on starting mechanism of a vehicle.
b) How is bleeding of hydraulic brake takes place? What is its purpose?
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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