Roll No

ME-7002 (CBGS)

B.E. VII Semester

Examination, November 2019

Choice Based Grading System (CBGS) Automobile Engineering

Time: Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

- ii) All questions carry and marks.
- 1. a) Write in detail consists a substitution of automobiles.
 - b) Differentiate between unitized chassis and framed chassis.
- 2. a) Draw a ladder type of frame and explain various parts of frame.
 - b) What is meant by front wheel drive and rear wheel drive? Explain with examples.
- a) Explain the various steering geometry.
 - b) How will you achieve power steering in a vehicle? Explain with neat sketch.
- 4. a) Derive the condition of correct steering angle.
 - Explain the concept of under steer and over steer.

5. a) Explain the working of a single plate friction clutch.

b) Draw and explain the working of torque converter.

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 a) Explain the working of telescopic damper (shock absorber) with neat sketch.

b) Draw and explain the working of a hydraulic brake. What are its advantages over mechanical brakes? 7

7. a) Write notes on starting mechanism of a vehicle.

b) How is bleeding of hydraulic brake takes place? What is its purpose? 7

a) Compare Bharat and Euro emission norms.

b) What is the advantage of a catalytic converters? How does it help to reduce pollution?

