Total No. of Questions :8]

[Total No. of Printed Pages :2

Roll No

ME-704 (GS) **B.E. VII Semester**

Examination, December 2017

Grading System (GS)

Automobile Engineering

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer any five questions. All questions carry equal marks.

- ii) All parts of each question are to be attempted at one place.
- iii) Draw neat and clean sketches/diagrams/figures wherever requiured
- Explain classification of Vehicles along with examples.
 - Explain various resistances acting on a vehicle in motion.
- Explain advantages and disadvantages of a passenger car with the engine mounted at the front and rear engine mounting with neat sketch.
 - What is driver visibility? Discuss methods to improve it.
- 3. a) Define:

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- Castor
- Camber
- iii) Toe in and toe out

State their effect on steering geometry with neat sketch.

Write a short note on Power steering.

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- With neat sketch explain construction and working of a single plate clutch.
 - Mention the types of manual gear box. Explain the working principle of sliding mesh gear box.
- Designate the tyre with example. Differentiate between tube and tubeless tyre.
 - Explain the need of suspension system and state its objective.
- State the function of battery and explain construction of automobile battery with sketch.
 - Explain Hotchkiss drive with a neat sketch.
- State about fuel quality standards.
 - Give the comparison of following:
 - Cross ply-tyres and radial ply tyres
 - Tubeless tyres and conventional tubed tyres.
- Write short technical notes on following (any two):
 - Bleeding of brakes
 - Types of wheel rims
 - Catalytic converter
 - Euro norms

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