

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

ME-704-GS
B.E. VII Semester
Examination, December 2020
Grading System (GS)
Automobile Engineering
Time : Three Hours
Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Describe the working of power steering system.
b) Discuss various types of gear boxes with application.
2. Why is gear box necessary in a CAR? Draw a neat sketch of gear box that is normally used in a car and explain its action.
3. a) Where and why we do use multi plate clutches? Explain the constructional details and working of multi plate clutch.
b) What are the requirements of good transmission system? Name the different units of transmission system.
4. a) Distinguish between the anti lock braking system and conventional braking system.
b) Explain briefly the elements of a suspension system and discuss the bouncing, rolling and pitching suspension movement of cars.

ME-704-GS

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[2]

5. Write a brief note on:
 - a) Operation of lead acid battery
 - b) Wheel alignment

6. a) What are fuel additives? How they affect the emission of automobile.
b) Discuss the government measures to control the automobile emissions.

7. Explain microprocessor based control system for automobiles.

8. Compare Indian standards for vehicle emission.
 - a) Bharat - I and Bharat - II
 - b) Euro - I and Euro - II
