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Roll No

AU-8004(1) (CBGS)
B.E. VIII Semester Examination, June 2020
Choice Based Grading System (CBGS)
Vehicle Body Engineering
Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

iii) Assume suitable missing data if any.

1. a) Explain the main parts of integral car body with the help of neat sketch.
b) Difference between Saloon and hatch box car with the help of neat sketch.
2. a) What are the various types of forces and moments acting on the vehicle explain with figure?
b) What is a drag force? Explain the methods for minimizing the drag force.
3. a) What is a vehicle frame? Explain the functions and types of materials used in vehicle frame.
b) Explain types of buses with neat sketch on the bases of shape and style of the vehicle.
4. a) Explain the construction of tanker body with the help of neat sketch.
b) Explain the features to be considered while designing the drivers cabin with the help of neat sketch.
5. a) Write a short note on usage of following materials in construction of the body of a vehicle.
 - i) Plastic
 - ii) Steel Sheet
 - iii) GRP
b) Explain various anti corrosion methods used for vehicle body.
6. a) Explain different loading situations of body structure of a vehicle.
b) Explain the symmetrical and asymmetrical vertical loads act on a car.
7. a) What are the different methods for improving the visibility in cars?
b) Write short note on active and passive safety equipments used in cars.
8. a) Explain the double skin construction of the body a vehicle.
b) What are the difference between a tipper body and flat platform body?
