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B.Tech.(AE) (2011 Onwards) (Sem.-5) VEHICLE BODY ENGINEERING

Subject Code: BTAE-501 M.Code: 70484

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write short notes on:

- a) Classify the automobiles with respect to the passenger carrying capacity.
- b) What do you understand by convertible car body?
- c) What do you mean by split level?
- d) What should be the floor height for a commercial bus?
- e) What do you understand by tipper body?
- f) Name any two anti-corrosion methods used for external body of a vehicle.
- g) Name any four non-ferrous materials used in commercial vehicles.
- h) Name any two vehicles, which are fabricated using carbon fiber.
- i) What do you mean by IIIrd party insurance?
- j) What do you mean by pumping vehicles?



SECTION-B

- 2. Discuss the frame and unitary (monocoque) type construction.
- 3. Write a short note on idealized structure.
- 4. Describe flat platform, drop side and fixed side in a commercial vehicle in detail.
- 5. Explain the need and constructional details of fire station vehicle.
- 6. Explain, Double skin construction in detail.

SECTION-C

- 7. Discuss the different components of Indian motor vehicle acts 1988 with their applications.
- 8. Discuss the following vehicles in detail:
 - a) Ladder vehicle
 - b) Concrete mixer transport vehicle.
 - c) Off-road vehicle
 - d) Ambulance.
- 9. Explain the various types of body panels and their constructional details with the help of a neat sketch.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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