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Roll No.						

Total No. of Pages : 02

Total No. of Questions : 09

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?



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SECTION-B

- 2. Discuss the frame and unitary (monocoque) type construction.
- Write a short note on idealized structure. 3.
- 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
 - stRanker.com b) Concrete mixer transport vehicle.
 - c) Off-road vehicle
 - d) Ambulance.
- Explain the various types of body panels and their constructional details with the help of a 9. 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.