

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(AE) (2011 Onwards) (Sem.-5)

VEHICLE BODY ENGINEERING

Subject Code : BTAE-501

Paper ID : [A2061]

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 :

- What do you understand by tipper body?
- What do you understand by unitary type body?
- What is a double decker bus?
- What do you understand by drop side body?
- What is man machine system?
- What is the difference between saloon and hatchback car?
- What do you understand by displays in vehicle?
- What are the functions of the frame?
- What is the use of towing vehicle?
- What is a safety lock?

SECTION-B

2. How buses are classified based on the body shape? Discuss.
3. Explain wind tunnel testing with neat sketches.
4. What are the methods of improving space in cars? Discuss.
5. Explain the working of air bags as safety equipment for car.
6. What is meant by controls? Explain.

SECTION-C

7. What is the need of a ladder vehicle and explain its constructional detail?
8. Write a note on anti-jamming door locks.
9. Explain with the help of a neat sketch the design of the cabin of driver.