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Total No. of Pages: 02 Total No. of Questions: 09

B. Tech. (AE) (Sem-6th) VEHICLE SAFETY ENGINEERING Subject Code: BTAE 605 Paper ID: (A2384)

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION B consist 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 briefly:
 - (a) What is safety?
 - (b) Define conditional safety.
 - (c) What are the stationary obstacles?
 - (d) Define interior safety.
 - (e) What is the function of seat belt?
 - (f) Explain the functioning of air bag.
 - (g) What is warning system?
 - (h) What principle is used for object detection?
 - (i) What is sensor used in vehicle,
 - (j) Types of mirrors.

SECTION B

- 2. Explain the monocoque chassis construction.
- 3. Differentiate between active safety and passive safety with examples.
- 4. Discuss tilt able steering wheel.
- 5. Explain the causes of rear end collision.
- 6. Discuss rain sensor system.

SECTION C

- 7. Define sensor and how it is important to avoid collision.
- 8. How safety is essential on road? Discuss.
- 9. What are the safety equipments and discuss the electronic break force distribution.

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