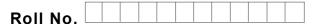


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B.Tech.(AE) (2011 Onwards) (Sem.-6) VEHICLE SAFETY ENGINEERING Subject Code : BTAE-605 M.Code : 71221

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. Answer briefly :
 - a. What is the safety sandwich construction?
 - b. Name the parts of seat belt tightner.
 - c. What is the role of seat belt in reduction of accident?
 - d. Name the parts of collapsible steering column.
 - e. What do you mean by perceptibility safety?
 - f. List the major components of vehicle object detection system.
 - g. What do you mean by operating safety?
 - h. What do you mean by a crumble zone?
 - i. List out the causes of rear end collision.
 - j. Name the important parts of garage door opening system.



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SECTION-B

- 2. Explain various active safety systems in automobiles.
- 3. "Deceleration on impact with movable vehicle is less danger than the stationary object". Justify this statement.
- 4. Explain tyre pressure control system with suitable and neat sketches.
- 5. Write a short note on EBD.
- 6. Explain the working of pedestrian detection system.

SECTION-C

- 7. Explain the construction & working principle of air bag with electronic activating system.
- 8. Explain the working principles of anti-theft central locking system with neat sketches.
- 9. With a suitable diagrams, explain the working of collision warning system.

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.