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Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech (CSE / EEE / EE / ECE / ME) (Sem.-7)**

**ROAD SAFETY**

**Subject Code : OECE-703-18**

**M.Code : 90631**

**Date of Examination : 03-01-23**

**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** 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 briefly :**

- a) What are the various types of traffic accidents?
- b) List various objects of accident studies.
- c) Differentiate between fatal and non-fatal accident.
- d) Define blackspot.
- e) What is the basic criterion for locating traffic aid post?
- f) List various types of safety barriers.
- g) What is the purpose of road safety audit?
- h) Define skidding.
- i) What are the causes of cycle accidents?
- j) What are the elements of weather that have effect on accidents?

### **SECTION-B**

2. Discuss various factors that determine the skid resistance developed at the tyre-pavement interface.
3. How does parking influences traffic safety? Discuss.
4. How is accident data represented? Explain with neat sketches.
5. What are the various aspects of highway facility covered by road safety audit?
6. Discuss various aspects of vehicle design that influence road accidents.

### **SECTION-C**

7. What do you mean by “3-Es”? Explain in detail.
8. Discuss in detail how road safety audit procedure and investigation is carried out.
9. Briefly discuss various measures that must be taken to improve pedestrian safety.

**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.**