

No. of Printed Pages : 03

Roll No.

885

B.Tech. EXAMINATION, May 2017

(Eighth Semester)

(Old Scheme) (Re-appear Only)

(CE)

CE-454

ROAD SAFETY AND ENVIRONMENT

Time : 3 Hours]

[Maximum Marks : 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt any *Five* questions. All questions carry equal marks.

- 1. (a)** What are the various human factors related to traffic accidents ? **10**

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- (b) Mention the application of accident location file in recording accident data. **10**
2. Write short notes on any *four* of the following : **5+5+5+5**
- (a) Accident spot maps
 - (b) Before and after study
 - (c) Collision diagram
 - (d) Accident costing
 - (e) Planning for road network in road safety.
3. Explain various stages of Road Safety Audit. **20**
4. (a) Explain briefly the facilities required by pedestrians. **10**
- (b) Discuss the importance of highway lighting. **10**
5. (a) Discuss the importance of speed zone signing infrastructure to support safe speed. **10**

- (b) How are the speed limits marked and managed for safe movement of traffic ? **10**
6. (a) Discuss road safety audit checklist. **10**
- (b) Discuss the importance of encouraging RSA for road safety. **10**
7. (a) Discuss the importance of site visits in preparation RSA Reports. **10**
- (b) Briefly explain the objectives of traffic planning and administration in prioritization of RSA report. **10**
8. Explain, why risk assessment is done before implementing RSA recommendations ? **20**