

No. of Printed Pages : 03

Roll No. ....

**H-158**

**B. Tech. EXAMINATION, May 2018**

(Eighth Semester)

(B. Scheme) (Main & Re-appear)

(CE)

CE454B

**ROAD SAFETY AND ENVIRONMENT**

*Time : 3 Hours]*

*[Maximum Marks : 75*

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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.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(2-50/20) M-H-158

**P.T.O.**

### **Unit I**

1. (a) How route planning through communities affect road safety ? 7  
(b) Write short notes on the following :  
(a) Traffic calming  
(b) Role of traffic police in road safety. 8
2. Mention the application of (a) accident location file (b) spot maps (c) collision diagram. 15

### **Unit II**

3. (a) Explain the importance of Road Safety Audit. 7  
(b) What are the various stages of Road Safety Audit ? 8
4. What are the objectives of highway lighting ?  
Explain Silhouette and reverse Silhouette. 15

### **Unit III**

5. Describe the size, shape and colour of : 15  
(a) Warning signs  
(b) Mandatory signs  
(c) Informatory signs

6. Discuss the role of road side rest areas and traffic safety barriers in road safety. 15

### **Unit IV**

7. Discuss how safety can be enhanced during construction operations in a highway. 15
8. Explain the differences between road safety audit and accident studies in identification of black spots. 15