R20

SET - 1

III B. Tech II Semester Supplementary Examinations, December -2023
ROAD SAFETY ENGINEERING
(Civil Engineering)

Time: 3 hours   Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
*****

UNIT-I

1. a) Explain briefly about road safety improvement strategies.   [7M]
    b) Illustrate the elements of road safety plan.   [7M]
                                    (OR)
2. a) Compare crash and accident.   [7M]
    b) Discuss the influence of speed and its effect on road safety.   [7M]

UNIT-II

3. Explain how a black spot can be identified.   [14M]

                                    (OR)
4. a) Discuss the need of crash data for accident investigation.   [7M]
    b) Discuss various investigations performed to identify a black spot.   [7M]

UNIT-III

5. Explain any two methods in identifying hazardous road locations.   [14M]

                                    (OR)
6. Explain the steps involved in road safety audit.   [14M]

UNIT-IV

7. a) Explain how crash reconstruction will be done.   [7M]
    b) Describe the basic information that can be obtained from the roadway surface. [7M]
                                    (OR)
8. a) Discuss on variables involved in pedestrian based road accidents?   [7M]
    b) Explain the reasons for pedestrian crashes.   [7M]

UNIT-V

9. Explain how accidents can be prevented in different methods.   [14M]
                                    (OR)
10. a) Explain the highway safety measures during construction.   [7M]
    b) Explain road safety is possible in urban areas.   [7M]

|'"|'|'|'||'"||||