M.E. Second Semester (Civil Engineering (Transportation Engg. & Management)) (New CGS)
13112 : Road Safety and Management System : 2 SFTR 2

P. Pages : 1

Time : Three Hours

AU - 3337

Max. Marks : 80

Notes :
1. All question carry equal marks.
2. Answer **any five** questions.
3. Assume suitable data wherever necessary.
4. Illustrate your answer necessary with the help of neat sketches.

1. a) Sketch and explain typical collision diagram at junction and symbols employed in collision diagram. **8**

   b) It is observed that on an average a vehicle driver drives 5000 km during the course of a year. The probability of having on accident is 100 per 200 million vehicle kilometers. What is the probability of a driver having at least two accidents during his driving career extending to 30 years. **8**

2. a) Explain accident prevention through better planning and design of roads. **8**

   b) Explain the terms –
      Land use planning
      Link design **8**

3. a) What is Road safety audit? Explain procedure for Road safety audit. **8**

   b) Explain in detail –3E's of road safety. **8**

4. a) What are the objectives of economic evaluation? Describe in brief various methods of economic evaluation. **8**

   b) What are the steps involved in investigations of accidents. **8**

5. a) Explain in brief - local area management. **8**

   b) Explain – Traffic calming technique. **8**

6. a) Explain Area traffic control for traffic management. **8**

   b) Explain safety precautions during road works. **8**

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