

Second Semester M. E. Civil Engg. (Transportation Engg. and Manage.)
Examination

ROAD SAFETY AND MANAGEMENT SYSTEM

Paper – 2 STTR 2

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions carry equal marks.
(2) Answer any **five** questions.
(3) Assume suitable data wherever necessary.
(4) Illustrate your answer wherever necessary with the help of neat sketches.
(5) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (a) What are the road characteristics, which influence the pedestrian accidents ?
Explain time and its influence on pedestrian accident. 8
(b) It is has been found that on an average 1 in 100 drivers in a bus company are involved in an accident every year. If there are 500 drivers in the company, what is the probability that there are exactly 4 drivers who are involved in an accident during a year. 8
2. (a) Explain in brief – Land use planning. 8
(b) What are the statistical methods for analysis of accident data ? Explain Regression method in brief. 8
3. (a) Explain the general controls kept in view in designing highway for combination of horizontal and vertical alignment. 8
(b) Explain – Junction design for safety. 8
4. (a) Explain 3E's of Traffic Engg. 8
(b) Explain in brief – how one way streets help to reduce accidents. 8

- 5 (a) State necessity of investigating accidents and their reasons. 8
- (b) Explain low cost measures for transportation system management. 8
6. (a) Explain Area traffic control for traffic management. 8
- (b) Explain — Management and Safety practices during road works. 8

