

ROAD Safety Question Bank

UNIT –I

ROAD ACCIDENTS – CAUSES & PREVENTION

1. Briefly explain about road accidents and how a traffic engineer can prevent them.
2. Discuss about Accident situation in India.
3. Compare different aspects of road accidents in various countries.
4. Analyze various road geometric design elements and how they are related to cause of Road accidents.
5. Discuss following elements in view of causing road accidents.
 - a) The vehicle
 - b) The driver
 - c) Speed
 - d) Weather
6. Describe parking and its influence on road accidents.
7. Identify the various measures to be taken into account while designing of road elements in order to prevent the road accidents.
8. Suggest various measures to be considered in view of controlling the Road Accidents.
9. Bring out the various legislation and education measures to be adopted in prevention of Road accidents.
10. Give an account on various road accident cost methods.

UNIT –II

REGULATION OF TRAFFIC AND PARKING

1. a) What are the basic principles of Traffic regulation?
b) List out various Traffic Laws.
2. a) Give a detailed discussion about Regulation of speed.
b) Compare and discuss about Speed limits in rural and urban areas.
3. Analyze various aspects which are necessary in regulation of vehicles.
4. Develop your answer about the following elements in view of regulation concerning the driver.
 - a) Licensing of the driver
 - b) Requirements of physical fitness
 - c) Age of drivers
 - d) Disqualification and endorsement of licences
5. a) What are the ill-effects of parking.
b) Briefly explain about zoning and parking space requirement standards.
6. Identify various methods that should be adopted in design of on-street parking and give a brief explanation about parallel parking.
7. Briefly explain about various traffic regulatory measures that should be considered for On-street Parking.
8. Give a brief discussion about different types of Off-street parking facilities.

UNIT –III
TRAFFIC SIGNS

1. a) Briefly explain the importance of traffic signs.
b) Why traffic signs require international standardization?
2. Discuss about different types of traffic signs.
3. a) What are the various general principles of traffic signs.
b) Briefly explain about traffic signs situation in India.
4. Draw different types of Warning signs with necessary specifications.
5. Develop your answer about the following elements in view of traffic signs.
 - a) Prohibitory signs
 - b) Warning signs
 - c) Informatory signs
 - d) Mandatory signs
6. Draw different types of Prohibitory & Mandatory signs by indicating necessary specifications.
7. What do you know about Informatory signs and indicate different types of it with neat sketch.
8. Briefly explain about Indication signs and Direction signs with neat sketch.
9. Draw a neat sketch in regarding to following signs:
 - a) Advance direction signs
 - b) Overhead signs
 - c) Route marker signs
 - d) Place identification signs
10. Give a brief discussion about Location, Height & Maintenance of traffic signs.

UNIT –IV

TRAFFIC SIGNALS AND AUDITS

1. a) What are the advantages and disadvantages of traffic signals.
b) Briefly explain the concept of signal indications.
2. List out various Traffic control methods & explain any four of them in detail.
3. a) What do you meant by Area traffic control and give the objectives of it.
b) Give a brief discussion about Delay at signalised intersections.
4. What are the Key elements in Road safety audit?
5. Describe Road safety audit procedure and investigations.
6. Discuss the role of ITS in Road safety.

UNIT –V**ROAD MARKINGS & STREET LIGHTING**

1. a) What are the functions of road markings & List out the various types of road markings.
b) What are general principles of longitudinal pavement markings?
 2. a) Explain briefly about commonly used Materials and Colours in road markings.
 - b) Briefly explain about stop lines with neat sketch.
 3. a) Explain the concept of stop lines with neat sketch.
b) What is meant by pedestrian crossings explain with neat sketch.
4. Develop your answer about the following elements in view of road markings.
 - a) Centre lines
 - b) Traffic lane lines
 - c) No overtaking zone markings
 - d) Pavement edge lines
5. a) Why street lighting is needed for road users.
b) Define the following terms:
 - i) Luminous flux & Lumen
 - ii) Steradian & Illumination
 - iii) Lighting system
 - iv) Outreach & Overhang
6. Briefly explain about various types of Lamps used in street lighting in view of road traffic safety at night time on roads.
10. Briefly explain how the lightning system is arranged at rotary intersections with neat sketch.