

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY
Question Bank (I-Scheme)

Name of course: Traffic Engineering
Subject code: 22507

Semester: Fifth
Program: Civil

Unit Test – II

Unit 4 - Traffic Signals And Traffic Islands (16 marks)

(2 Marks)

1. List the various types of road signals.
2. Define traffic island.
3. Give various types road intersection.
4. Describe the channelizing islands with neat sketch.

(4 Marks)

5. Enumerate the advantages and disadvantages of traffic actuated signals.
6. Discuss the basic requirements of a good intersection at grade.
7. List different types of at-grade intersections. Explain any two with neat sketch.
8. Differentiate between at- grade intersection and grade separated intersection.
9. Draw a labeled sketch of clover-leaf pattern of grade separated intersection.
10. Explain the following type of traffic segregation. (i) Vehicle-vehicle segregation (ii) Time segregation.

Unit 5- Road Environment And Arboriculture (08 marks)

(2 Marks)

11. State different types of street lighting.
12. State the necessity of street lighting.
13. Define street lighting.
14. Define (i) Lumen (ii) Luminous Intensity (iii) Candela (iv) Illumination

(4 Marks)

15. Explain the factors affecting the street lighting.
16. Explain the factors affecting the visibility at night.
17. State the objectives of road arboriculture.
18. Discuss the factors affecting selection of type of roadside trees.

19. Define arboriculture. Give purpose of Arboriculture.
20. Write a note on maintenance of trees.

Unit 6- Road Accident Studies (14 marks)

(2 marks)

21. Define (i) Collision accident (ii) Non-collision accident
22. State the use of condition diagram.
23. State the use of collision diagram.
24. Draw the collision diagram for the following cases.
 - (i) head on collision of two vehicles
 - (ii) striking of vehicle on another moving vehicle

(4 marks)

25. Suggest the preventive measures to prevent road accidents.
26. Describe the points to be considered for road safety.
27. Explain the method of recording and reporting of an accident.
28. Discuss the legislation and law enforcement education in road accident studies.
29. Enumerate the road user causes of road accidents.
30. Enumerate the sources of road accidents due to road structural defects.

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