

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

Name of course: Traffic Engineering
Subject code: 22507

Semester: Fifth
Program: Civil

Unit Test I

Unit 1- Fundamentals Of Traffic Engineering (04 marks)

(2 Marks)

1. State the objects of Traffic Engineering.
2. Define Gradient. List the different types of gradients.
3. List the various components of Traffic System.
4. Write short note on Traffic Engineering.
5. Enlist the vehicular characteristics.

(4 Marks)

6. Enlist the Road Users characteristics. Explain any two.
7. Explain PIEV theory with sketch.
8. State the factors which affect the speed of vehicle.
9. Define design speed. Give its IRC specifications.
10. Explain: Friction between Road and Tyre.

Unit 2- Traffic Studies (12 marks)

(2 Marks)

11. Define traffic studies.
12. Enlist different types of traffic studies.
13. State the purpose of traffic studies.
14. Enlist the different types of parking surveys.
15. State the different factors which affect the spot speed.

(4 Marks)

16. Define traffic volume. State the purpose of traffic volume study.
17. Describe the necessity of origin and destination study.
18. List out the various methods of collection of traffic volume count data. Explain any one in detail.

19. List the different methods of O-D survey. Explain any one in detail.
20. State the applications of spot speed study.
21. Briefly describe the presentation of spot speed.
22. State the need for parking studies.
23. Define (i) Parking Load (ii) Parking Turn-over (iii) Parking Volume (iv) Parking Index
24. Explain the method of representing traffic volume count.

Unit 3- Road Signs And Traffic Markings (16 marks)

(2 Marks)

25. List out the types of traffic control devices useful in traffic engineering.
26. Draw the following traffic signs for the urban area: (i) U-turn prohibited (ii) Height limit 3m (iii) School ahead (iv) Hospital.
27. Define traffic control devices.
28. Explain the following carriage way marking (i) Traffic lane lines (ii) Cross walk lines (iii) Stop line (iv) No overtaking zone marking
29. State the objects of traffic markings.

(4 Marks)

30. Write the role of road signs in traffic flow.
 31. Give classification of road signs as per IRC.
 32. Explain the points to be considered while erecting the traffic signs.
 33. Explain about location of warning signs in urban and non-urban areas.
 34. Explain the points to be considered while designing the road sign.
 35. Classify the traffic markings.
 36. Draw a neat and labeled layout of carriage way markings at unsignalised intersection.
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