Name of course: Traffic Engineering   **Semester: Fifth**
Subject code: 315318   **Program: Civil**

Unit Test I

Unit 1- Fundamentals Of Traffic Engineering (08 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 Surveys and Intelligent Transport (18 marks)

(2 Marks)

11. Define traffic studies.

12. Enlist different types of traffic studies.

13. State the purpose of traffic studies.

14. Define Peak hour factor.

15. State the different factors which affect the spot speed.

(4 Marks)

16. State and explain types of speed studies.

17. Explain detail methods of collection of traffic volume Count data.

18. Give benefits and applications of ITS.

19. Explain any four difficulties in Urban cities traffic conditions.

20. State the applications of spot speed study.

21. Give any four measure to meet traffic conditions in urban areas.

22. Describe use of ITS to manage the traffic.

23. Define Journey time. State importance of journey time.

Unit 3- Parking Studies (18 marks) (2 Marks)

24. Give need of Parking regulations.
25. Enlist any four types of parking regulations.

26. Enlist ill effects of parking.

(4 Marks)

27. Define :1) Parking accumulations 2) Parking Load 3) Parking Turnover 4) Parking Volume 5) Parking Index

28. Enlist any four types of parking survey and describe any one .

29. Describe various parking Problems.

30. Give IRC specifications for parking.

31. Describe on street parking with Sketches.

32. Describe off street parking with Sketches.

33. Enlist any four solutions to parking problems.
………………………………………………………………………………………………..