

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER M. TECH DEGREE EXAMINATION
Civil Engineering
(Transportation Engineering)
04CE 7211—TRAFFIC MANAGEMENT AND CONTROL

Max. Marks : 60

Duration: 3 Hours

PART A

Answer All Questions

Each question carries 3 marks

1. Explain about the concept of tidal flow operation?
2. List out the speed limits at different locations as per Indian Standards.
3. How do you evaluate performance of a traffic system using LOS?
4. How does transportation system contribute to noise pollution?
5. What is the need for traffic signal coordination?
6. List out the different types of road markings.
7. Why is angle parking considered more suitable than parallel parking?
8. Define parking accumulation and parking volume.

PART B

Each question carries 6 marks

9. Explain about the different methods for regulations of traffic?
OR
10. List out the advantages and disadvantages of one way streets?
11. Explain about any 3 measures to promote the use of public vehicles?
OR
12. What is the need for traffic regulation?
13. What are the different types of road capacity? How can you evaluate capacity of a road network?
OR
14. How can you relate performance of a traffic system with level of service?
15. Explain about the concept of air pollution modelling?
OR
16. How does transportation system contribute to noise pollution?

17. The average normal flow of traffic on cross roads A and B during design period are 400 and 250 PCU per hour. The saturations flows on these roads are estimated as 1250 and 1000 PCU per hour respectively. The all red time required for pedestrian crossing is 12 seconds. Design two phase signal by Webster Method?

OR

18. Explain about the concept of Delay models?

19. Explain about the need for multi storied parking and automated parking?

OR

20. What are the factors to be considered while designing ramps for multi storied parking?