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Total Number of Pages: 2(TWO)

M.TECH
CEPE 206/GEPE 206

2nd Semester Regular / Back Examination – 2014-15
INFRASTRUCTURE ENGINEERING & TRANSPORTATION PLANNING
BRANCH(S): STRUCTURAL ENGINEERING /GEO-TECH ENGINEERING
Time: 3 Hours
Max marks: 70
Q.CODE:T406/T427

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2 x 10)
- a) Why is it desirable to prohibit parking at certain locations? Which are such locations?
 - b) What do you mean by Transport System Management?
 - c) Enumerate some well known traffic management measures.
 - d) What are the factors that govern the modal choice?
 - e) What are possible approaches for monetary evaluation of passengers travel time?
 - f) What are the constituents of fixed costs in transportation?
 - g) Which measures are essential for mitigating the problem of ribbon development along highways?
 - h) What are the elements that constitute trip making?
 - i) Enumerate the characteristics that judge the efficiency of any mode of travel?
 - j) Which factors influence the traffic growth in general?
- Q2 a) What are the requirements of a good road pricing system? (5)
- b) Define traffic restraint. What are the different methods employed for traffic restraint? (5)
- Q3 What do you mean by one way streets? What are the advantages and the disadvantages of adopting this system of traffic management? Draw neat diagrams to show vehicular points of conflicts for two way and one way streets. (10)
- Q4 a) What are the techniques applied for reducing traffic flows during peak hour? (5)
- b) How the traffic and parking problems are correlated? What are the ill effects of parking? (5)
- Q5 a) Explain in details the considerations for locating off-street parking facilities. (5)
- b) Justify the present difficulties in urban traffic conditions. What measures you should take to meet such problems? (5)
- Q6 a) Draw a neat sketch of a rotary and show its important elements. What are the advantages and disadvantages of a rotary intersection? (5)
- b) Describe in details the On-street parking facilities mentioning the design standards for different parking methods. (5)

- Q7 a) Describe the various stages in the transportation planning process. (5)
How does it help in forecasting, analyzing future conditions and plan synthesis?
- b) What are the different methods of economic evaluation for arriving at an assessment of soundness of a scheme? Explain in details. (5)
- Q8 Write Short Notes (Any Two) (5 x 2)
- a) Exclusive Bus Lanes
 - b) Tidal flow operation
 - c) Underpasses
 - d) Grade separated intersections