

M.E. First Semester (Civil Engineering (Transpo. Engg. & Manag.)) (New CGS)  
**13104 : Transport Planning and Management : 1 SFTR 2**

P. Pages : 1

Time : Three Hours



**AX - 3500**

Max. Marks : 80

- Notes :
1. All question carry equal marks.
  2. Answer **any five** questions.
  3. Due credit will be given to neatness and adequate dimensions.
  4. Assume suitable data wherever necessary.
  5. Illustrate your answer necessary with the help of neat sketches.
  6. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain the various stages in transport planning process with flow diagram. 8  
b) Explain the factors governing trip generation and trip attraction. 8
2. a) What is category analysis? Discuss the critical appraisal of the category analysis technique. 8  
b) Explain average factor method of trip distribution with its mathematical relationship representing principles employed. 8
3. a) Explain "Moore's Algorithm" for minimum path tree in traffic assignment with suitable example. 8  
b) Draw the flow chart for structure of lowry model. 8
4. a) Explain Probit Analysis and logit analysis in detail. 8  
b) Explain in brief 8
  - i) Quick response technique
  - ii) Non transport solution for transport problems.
5. Attempt any two.
  - a) Explain in brief vehicle routing and scheduling. 8
  - b) Explain in brief 8
    - i) Headway control strategies
    - ii) Optimum fleet size.
  - c) Explain the guidelines for the location of Bus-bays. 8
6. a) Explain the considerations in locating off street parking facilities. 8  
b) Explain in brief. 8
  - i) Crew scheduling
  - ii) Twin depot concept.

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