

AQ - 2803

First Semester M. E. (Civil) Transpo. Engg. and Management (CGS) Examination

TRANSPORT PLANNING AND MANAGEMENT

1 SFTR 2

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All question carry marks as indicated.
 (2) Assume suitable data wherever necessary.
 (3) Illustrate your answer wherever necessary with the help of neat sketches.
 (4) Answer any **five** questions.
 (5) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (a) What are the various surveys carried out for UTP ? Explain Registration number survey. 8
 (b) Explain the various processes involved in transport planning with detailed hierarchical structure. 8
2. (a) Explain various factors which governs the trip generation and attraction rates. 8
 (b) What is mean by multiple Linear Regression Analysis ? Write various assumptions considered in category Analysis. 8
3. Attempt any two :—
 (a) What are the different methods of trip distribution ? Explain uniform factor method in detail. 8
 (b) The number of trips produced in an attracted to the three zones 1, 2 and 3 are tabulated below :

Zone	1	2	3	Total
Trip produced	14	33	28	75
Trip attracted	33	28	14	75

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The order of closeness of the zones is including by the following matrix :

O D	1	2	3
1	1	2	3
2	2	1	3
3	2	3	4

The zonal L factors are given below :

Zone	L factors
1	0.04
2	0.02
3	0.04

8

- (c) What is mean by Traffic Assignment ? State the purpose and various applications of Traffic Assignment. 8

4. Attempt any two :—

- (a) Explain in brief – Quick response Technique. 8
 (b) Define Modal split. Explain in brief various factors affecting modal split. 8
 (c) Explain in brief – Non Transport Solutions for transport Problems. 8

5. Attempt any two :—

- (a) What are the considerations in evaluating alternatives for transportation plan. 8
 (b) Explain in brief :—
 (a) Crew scheduling (b) Optimum fleet size. 8
 (c) What are the main contents included in motor vehicle act 1988 ? 8

6. Attempt any two :—

- (a) Explain the guidelines for the location of bus bays. 8
 (b) Explain in brief — Twin depot concept. 8
 (c) Explain the types of parking facilities. 8