

	04	1	2	3	
Table Q6(b)	1	60	100	200	360
	2	100	20	300	1260
	3	200	300	20	3120
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c. Trip originating from zone 1,2, 3 of study area are 78, 92 and 82 respectively. If the growth factor is 1.3 and cost matrix is shown in table Q6(c). Find the expanded origin constrained growth trip table.

	<u>1 2 3 0.</u>
	1 20 30 28 78
Table O6(c)	2 36 32 34 92
	<u>3 22 34 26 82</u>
	0 88 96 78 252
	L

(03 Marks)

<u>Module_4</u>

- 7 a. What are opportunity model? Explain types of opportunity model.b. Define Modal split. Explain in brief the factors affecting modal split.
- (06 Marks) (10 Marks)

(10 Marks)

(06 Marks)

OR

8 A self'contained town consists of 4 residential areas A, B, C, D and 2 industrial states X and Y. —' Generation equations show that for the design year in question, the trips from home to work generated by each residential area per 24 hour day are as follows :

А	В	С	D
1000	2250	1750	3200

There are 3,700 jobs in industrial estate X and 4,500 in industrial estate Y. It is known that the attraction between zones is inversely proportional to the square of the journey time between zones. The journey times in minutes from home to work are :

	. V I			
Zones	A	В	С	D
X	15	15	10	15
Y	20	10	10	20

Calculate and tabulate the inter zonal trips for journeys from home to work. (16
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<u>Module_5</u>

9 a. What are the applications of traffic assignment? (08 Marks)
b. Write a note on :

i) All or nothing assignment
ii) Capacity Restraint assignment. (08 Marks)

OR

a. Explain land use planning models.b. Write a note on user equilibrium assignment.

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