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## GUJARAT TECHNOLOGICAL UNIVERSITY <br> BE- VII ${ }^{\text {th }}$ SEMESTER-EXAMINATION - MAY/JUNE- 2012

## Subject code: 170604

Date: 29/05/2012
Subject Name: Urban transportation system
Time: 02:30 pm - 05:00 pm
Total Marks: 70
Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

| Q. 1 | (a) | What are the goals and objectives of urban transportation planning? Describe in detail. |  |  | 07 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | (b) | Describe the basic structure of transportation systems (an overview) |  |  | 07 |
| Q. 2 | (a) | Explain by drawing flow chart various steps involved in transportation planning process. |  |  | 07 |
|  | (b) | What are the factors responsible for travel demand explain in detail. |  |  | 07 |
|  |  | OR |  |  |  |
|  | (b) | 1 Explain following terms with the help of sketch (i) cordon line (ii) intra zonal trips (iii) interzonal trips (iv) screen line(v) Desire line <br> 2. Define: - urban settlement, rural settlement. |  |  | 07 |
|  |  |  |  |  |  |
| Q. 3 | (a) | Explain with example category analysis for trip generation analysis. |  |  | 07 |
|  | (b) | Table shows data for vehicle trips p in house hold for one zone of stud and find which molel is more reliab |  | income and persons generation equation <br> remarks | 07 |
|  |  | OR |  |  |  |
| Q. 3 | (a) | What are methods of origin and destination study? Explain home interview method in detail. |  |  | 07 |
|  | (b) | Explain by drawing curve accuracy is checked by screen line analysis of O \& D studies data |  |  | 07 |
| Q. 4 | (a) | Enlist the different methods of trip distribution methods explain in detail average growth factor method. |  |  | 07 |



