

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2014

Subject code: 714803N**Date: 26-06-2014****Subject Name: Infrastructure and Transportation Planning****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) Discussing each element of infrastructure, explain the significance of infrastructure in development of a nation. **07**
 (b) Explain the Role of Town Planners in the area of Networks and Services. **07**
- Q.2** (a) With help of sketches, explain the total water on earth. **07**
 (b) Enlist pollutants in raw water with their limiting parameters. **07**
- OR**
- (b) Explain coagulation and types of coagulants. **07**
- Q.3** (a) Discuss criterion for ideal water supply scheme. **07**
 (b) Explain Patterns of water supply distribution system. **07**
- OR**
- Q.3** (a) Short note - Composting of Solid waste. **07**
 (b) What is fire demand? Why is it important? **02**
 Explain the Evaluation of water quantity for Fire Demand for an urban area. **05**
- Q.4** (a) With help of neat diagram, describe the entire process of transportation planning. Discuss in detail. **07**
 (b) Short note on Prisoner's Dilemma and its context to transportation planning. **07**
- OR**
- Q.4** (a) Explain transportation as function of land use pattern of a city or town. **07**
 (b) Discuss critically on BRTS concept. **07**
- Q.5** (a) Discuss organic v/s grid iron layout of a town or city with reference to transportation planning. Draw neat sketches to support your arguments. **07**
 (b) Using the latest data from Census of India, critically discuss the population scenario of India and challenges in infrastructure development. **07**
- OR**
- Q.5** (a) Short note - Role of Telecommunication services in infrastructure development. **07**
 (b) Explain on
 01. Trip Generation **03**
 02. Trip Distribution **04**
