

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

Subject code: 2714803**Date: 12-01-2015****Subject Name: Infrastructure & 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) What is the significance of physical infrastructure in urban development? **07**
(b) Discuss the norms and standards for social infrastructure. **07**
- Q.2** (a) Mention various water sources and intake structures for urban water supply. Also, discuss on at least one innovative practice adopted. **07**
(b) Elaborate on water losses from a water distribution system. **07**
- OR**
- (b) Elaborate on various planning provisions in concern with water supply and wastewater management. **07**
- Q.3** (a) Explain any one method for estimating storm water generation in detail. **07**
(b) Elaborate on components and working of a water treatment plant with flow diagram. **07**
- OR**
- Q.3** (a) What are various methods available for treatment of domestic solid waste? **07**
(b) Elaborate on components and working of a sewage treatment plant with flow diagram. **07**
- Q.4** (a) Explain on bio-medical waste management. **07**
(b) Elaborate on power supply demand assessment and planning provisions. **07**
- OR**
- Q.4** (a) Express on firefighting norms applicable in areas having residential land use. **07**
(b) What is the land use and transportation interaction? **07**
- Q.5** (a) Explain the concept of transit oriented development of urban spaces. Support your answer with an example. **07**
(b) Elaborate on state of transportation problems at urban level. **07**
- OR**
- Q.5** (a) What is ISGLUTI? Discuss on findings of the study group. **07**
(b) Compare metro and BRTS urban mass transit systems. **07**
