

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

Subject code: 714803N**Date: 01-01-2014****Subject Name: Infrastructure & Transportation Planning****Time: 10.30 am – 01.00 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) With help of neat diagram / chart, discuss the entire process of transportation planning and explain its vitals. **07**
(b) Explain the current urbanization scenario of country using official data. Discuss the challenges in urban transportation thereafter. **07**

- Q.2** (a) Explain how effective vehicular transportation and its infrastructure will affect the water transportation? **07**
(b) What is water management? Why it is important? Explain the recycling of water. **07**

OR

- (b) What are various raw water pollutants? What are its limiting parameters? **07**
- Q.3** (a) What is storm water management? State and discuss its key aspects. **07**
(b) Explain following terms in one sentence. **07**
- Storm water
 - Precipitation
 - Brackish water
 - Evapotranspiration
 - Surface runoff
 - Wetland
 - Storm drain

OR

- Q.3** (a) What is BRTS concept? Discuss in detail with examples. **07**
(b) Discuss in detail landfill as a method of solid waste disposal. **07**
- Q.4** (a) Explain segregation of municipal waste. Discuss its advantages. **07**
(b) Short note – Recycling Municipal Waste. **07**

OR

- Q.4** (a) What does DEWATS mean? Explain with neat and clean diagrams. **07**
(b) Short note – Public Participation in Sanitation. **07**
- Q.5** (a) Advantages and disadvantages of grid iron pattern over organic circulation pattern – discuss. **07**
(b) Critically discuss the relationship between landuse pattern of a city and its transportation. **07**

OR

- Q.5** (a) What is groundwater? Why sustaining groundwater is important? Explain with respect to population date. **07**
(b) Short note – Total Water on Earth. **07**
