Seat No.:	Enrolment No.
Jeal 110	Lindincia 140.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – WINTER 2012

Subje	Subject code: 714803 Date: 11-01-201		013
Subje	ect l	Name: Infrastructure & Transportation Planning	
Time	: 02	2.30 pm – 05.00 pm Total Marks	: 70
Instr	uct	ions:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)		07 07
Q.2	(a) (b)		07 07
	(b)	Explain components and working of a sewage treatment plant.	07
Q.3	(a)	Explain various types of pollutants in raw water and its effect on human.	07
	(b)	Explain various types of aerators in sewerage treatment plant. OR	07
Q.3	(a)	1 1	07
	(b)	Explain types of sludge processing in sewerage treatment plant.	07
Q.4	(a)	Explain the solid waste disposal techniques and its treatment typology based on quality of waste.	07
	(b)	Explain role of cellular telecommunication services for an urban area. OR	07
Q.4	(a)	Explain the municipal solid waste management system in context of a city.	07
	(b)	•	07
Q.5	(a) (b)	Explain Importance of mass transportation services in urban areas. Write a detailed note on traffic control devices – signs, signals and road markings.	07 07
		OR	
Q.5	(a)	explain any three.	07
	(b)	Explain urban transportation planning process.	07
