Enrolment No.\_\_\_\_\_

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

$\mathbf{W}_{1}, \mathbf{E}, \mathbf{F}, \mathbf{S}_{\mathbf{E}} = \mathbf{W}_{\mathbf{E}} = \mathbf{F} \mathbf{E} \mathbf{X}_{\mathbf{E}} = \mathbf{W}_{1} + \mathbf{W}_{1} + \mathbf{W}_{1} + \mathbf{E} \mathbf{K} + \mathbf{Z}_{0} + \mathbf{W}_{1} + \mathbf{E} \mathbf{K} + \mathbf{Z}_{0} + \mathbf{W}_{1} + \mathbf{W}_{1}$			
Subject code: 2714803 Date: 12-01-2015			
Subject Name: Infrastructure & Transportation Planning			
Time: 02:30 pm - 05:00 pm Total Marks: 70			
Instructions:			
	-	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	5.	rigures to the right mulcate fun 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.	07
×	(4)	Also, discuss on at least one innovative practice adopted.	01
	(b)	Elaborate on water losses from a water distribution system.	07
		OR	
	<b>(b)</b>	Elaborate on various planning provisions in concern with water supply and	07
		wastewater management.	
Q.3	(a)	Explain any one method for estimating storm water generation in detail.	07
	<b>(b)</b>	Elaborate on components and working of a water treatment plant with flow	07
		diagram.	
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
		č	
Q.4	<b>(a)</b>	Explain on bio-medical waste management.	07
	(b)	Elaborate on power supply demand assessment and planning provisions.	07
0.4	(a)	<b>OR</b> Express on firefighting norms applicable in areas having residential land use.	07
Q.4	(a) (b)	What is the land use and transportation interaction?	07 07
		-	
Q.5	<b>(a)</b>	Explain the concept of transit oriented development of urban spaces. Support	07
	<b>(b</b> )	your answer with an example.	07
	(b)	Elaborate on state of transportation problems at urban level. <b>OR</b>	07
Q.5	(a)	What is ISGLUTI? Discuss on findings of the study group.	07
×	(b)	Compare metro and BRTS urban mass transit systems.	07
		* · · · · · · · · · · · · · · · · · · ·	

\*\*\*\*\*