Se	at No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. E SEMESTER – II • EXAMINATION – WINTER • 2014	
St	ıbject	code: 1721207 Date: 08-12-2014	1
Sı	ıbject	Name: Infrastructure Engineering and Management	
	-	2:30 pm - 05:00 pm Total Marks: 70)
	structio	* *	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Explain the four main phases of life cycle analysis	07
Ų.1	(b)	<u> </u>	07
	(~)		0.
Q.2	(a)	Describe the different type of risk involved in infrastructure project & explain	07
		commercial and political risk in the project	
	(b)	Explain the characteristics of the Infrastructure project	07
	<i>a</i> >	OR	07
	(b)	Describe the need analysis survey of the port project	07
Q.3	(a)	Explain any typical Infrastructure and describe its various features	07
~	(b)	Describe the private sector funding in Infrastructure project and Explain (i)	07
	()	BT(ii) BOLT	
		OR	
Q.3	(a)		07
	(1.)	Infrastructure project	0.7
	(b)	Describe rehabilitation strategies for any dam project	07
Q.4	(a)	The following are the data of PCU in thousands during different days of a road	07
~··	(11)	calculate (i) Mean (ii) Median (iii) Standard deviation (iv) coefficient of variance	0,
		Data: 1.3, 1.54, 1.2, 1.6, 1.55, 1.23, 1.57, 1.23, 1.90, 1,22, 1,38, 1,89, 1,16	
		and 2.01	
	(b)	Explain binomial probability distribution of the data analysis	07
~ 4	()	OR	0.7
Q.4 Q.4	(a) (b)	Explain different sectors of Infrastructure in brief Describe the Environmental aspect of the Infrastructure project	07 07
Ų.4	(D)	Describe the Environmental aspect of the infrastructure project	U/
Q.5	(a)	Describe the studies required to be carried for the Infrastructure project	07
	(b)	Explain role of data in Management Information system	07
	` /	OR	
Q.5	(a)	Describe the economical aspect of arriving at the user cost of any Infrastructure	07
	~ `	project	
	(b)	Describe the maintenance strategies of any Infrastructure project	07
