	Vo.∶_	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – I • EXAMINATION – SUMMER • 2014	
Subje	ect c	ode: 711706N Date: 24-06-2014	
•		lame: Environmental Sanitation	
•		30 pm - 05:00 pm Total Marks: 70	
Instr		<u> </u>	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Giving the etymology of word Sanitation define sanitation and environmental sanitation. Also explain the major aspects of rural sanitation in detail.	07
	(b)		07
Q.2	(a)	What is -Zoonoses ? Critically discuss the same in detail.	07
	(b)	Define the following terms in one line, only in context to environmental sanitation. (Any 07)	07
		➤ Anthroponotic disease	
		➤ Infectious disease	
		Contamination	
		Epidemic	
		> Pathogen	
		> Sterilization	
		> Toxin	
		AntigenHost	

	(b)	OR Define ÷diseaseø What do you mean by ÷water borne diseaseø? Critically discuss ó Health and Disease in environmental sanitation.	07
Q.3	(a)	What is Appraisal of Quality of Living? Discuss in detail how the data from the Census publications would help in the same.	07
	(b)	Critically discuss the role of hygiene indices in environmental sanitation. OR	07
Q.3	(a)	What is Housing? What is substandard housing? Discuss the current housing condition scenario in India.	07
	(b)	Write a short note - Basic Health Principles of Housing and Its Environment.	07
Q.4	(a) (b)	Enlist and discuss the fundamental principals of indoor sanitation. What is 'Air ó Conditioningø? Enlist and explain various systems of air ó conditioning with diagrams.	07 07
		OR	
Q.4	(a)	With help of neat diagram, explain -Ventilation & Also distinguish Natural Ventilation & Mechanical Ventilation.	07
	(b)	Write a short note on - Łightingø	07

Q.5	(a) (b)	What is <code>+radiation</code> ? Explain <code>-ionizing</code> radiation on brief. With reference to environmental sanitation, critically discuss <code>-iNuclear</code> Weapons Production and Testing	07 07
		OR	
Q.5	(a)	Explain in detail ó radioactive material, radioactive decay and half life and radon. Draw diagrams if necessary.	07
	(b)	Discuss the biological effects of radiation in detail.	07
