Seat No.:	Enrolment No.
Seat No	Lillollitetit No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E Sem-I/II Examination June-July 2011 Subject Name: Environmental Studies

Time: 10:30 am to 1:00pm

Subjection	4/7/2		
IIISU	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is the role of environmental engineer? Discuss the impact of	07
	(b)	technological development on environment. Describe the structure of atmosphere and tabulate the compositions of atmosphere.	07
Q.2	(a)	5 25 5	07
	(b)	explain the nutrient cycling in ecosystem. What is the meaning of biogeochemical cycle? Draw the carbon cycle and explain its functioning.	07
	<i>a</i> >	OR	0.5
	(b)	Give the classification of Ecology and explain the different parts of an ecosystem.	07
Q.3	(a)	What is meant by Ecological Pyramid? Describe the pyramid of biomass	07
	(b)	for terrestrial and aquatic ecosystem. Define food chain and discuss different trophical levels of it.	07
0.2	()	OR	0.5
Q.3	(a)	Differentiate renewable and non renewable energy resources and discuss the effect of overpopulation on energy problems.	07
	(b)	Define population growth and describe the different ways to control population growth.	07
Q.4	(a)	Explain the conventional and non conventional energy resources. Discuss	07
	<i>a</i> >	use of solar energy in India	0.5
	(b)	Describe the uses of different water resources and explain any two techniques of water conservation used in India. OR	07
Q.4	(a)	Enumerate different primary and secondary air pollutants and explain the	07
	(h)	effect of carbon monoxide on human beings. Give the classification of forests and discuss the effects of deforestation on	07
	(b)	society.	U /
Q.5	(a)	Discuss briefly current global environmental problems and discuss green	07
	a)	house effect in details.	0.5
	(b)	Write short notes on(i) Land degradation (ii) Ozone depletion OR	07
Q.5	(a)	What is Noise pollution? How is it measured? Describe the effects of noise	07
	(b)	pollution on human and animals. What are different types of pollutions? Describe the causes and effects of	07
	(D)	Eutrophication	U /
