Seat No.:	Enrolment No

Subject Code: 110007

Instructions:

Time: 10:30am to 01:00pm

Subject Name: Environmental Studies

1. Attempt any five questions.

2. Make suitable assumptions wherever necessary.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-I & II EXAMINATION - WINTER 2015

Date:01/01/2016

Total Marks: 70

	3. 1	Figures to the right indicate full marks.	
Q.1	(a)	Define the following:	07
		(i) Ecosystem (ii) Ecology (iii) Eutrophication (iv) mortality rate	
		(iv) air pollution (v) biomagnification (vi) ecological pyramids	
		(vii) Food web	
	(b)	Why environmental education is important? What are the different ways to impart environmental education?	07
Q.2	(a)	What is biogeochemical cycle? Define the terms (i) precipitation (ii) interception (iii) evaporation (iv) transpiration (v) runoff and (vi) infiltration in the context of Hydrologic cycle.	07
	(b)	Enlist conventional and nonconventional energy resources and explain their advantages and limitations.	07
Q.3	(a)	Describe Nitrogen cycle with a neat sketch. Write the significance of nitrogen in biotic components?	07
	(b)	Give the classification of water pollutants and discuss their sources and effects.	07
Q.4	(a)	Enlist major ecosystems and describe forest ecosystem in detail.	07

	(b)	What do you mean by population explosion? What are the demographic projections for population growth?	07
Q.5	(a)	Justify land as a resource. What are the sources and effects of land pollution?	07
	(b)	Explain the environmental factors affecting human habitation. Describe the reasons for over population and suggest some control measures.	07
Q.6	(a)	What is an ecosystem? Enlist major ecosystems and describe marine ecosystem in detail.	07
	(b)	Give the classification of forests and explain the causes and effects of deforestation.	07
Q.7	(a)	Discuss global environmental problems and explain any two in detail.	07
	(b)	Write a short note on (i) Eutrophication (ii) Ambient air quality standards	07
