Seat No.:	Enrolment No.
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Subject code: 110007

GUJARAT TECHNOLOGICAL UNIVERSITY BE SEM- I / II Winter Examination-Dec.-2011

Date: 20/12/2011

Subject Name: Environmental Studies			
		.30 am -1.00 pm Total marks:	70
Instr			
		Attempt any five questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	٥.	rigures to the right mulcate full marks.	
Q.1	(a)	Give reasons for validity of the following statements . try any seven only.	07
	()	(i) Environmental education is essential for engineers	
		(ii) Decomposer are not essential in any ecosystem	
		(iii) The producer is backbone of an ecosystem	
		(iv) Primary consumers are more safe than secondary consumers	
		(v) Energy flow in ecosystem is not required.	
		(vi) Ecosystem is healthy if more number of a specific organisms	
		are present in it.	
		(vii) Presence of toxicants in water gets magnified in food pyramid of	
		an aquatic ecosystem	
		(viii) Photosynthesis is kitchen of the biosphere	
		(ix) All organisms are interdependent in an ecosystem	
		(x) A rice field is an artificial ecosystem	
	(b)		07
		(i) Atmospheric Environment (ii) Ecosystem (iii) Water pollution (iv)	
		Tertiary Consumers (v)Reforestation (vi) Bioaccumulation (vii)	
		Eutrophication (viii) Herbivores (ix)Biomagnification(x) Trophic Level	
		(xi)omnivores (xii) Ecological Pyramid (xiii) Decomposers (xiv) Predator	
0.2	(a)	Why is Environmental advantion assential? What is relationship between	07
Q.2	(a)	· · · · · · · · · · · · · · · · · · ·	U/
	(b)	Man and Environment? Do you think that man has protected environment? Enumerate all classifications of Ecology and ecosystems and write in detail	07
	(b)	structure and functions of an ecosystem	U/
		structure and functions of an ecosystem	
Q.3	(a)	Describe importance of biochemical cycle in the life of a biotitic. Describe	07
Q.S	(a)	Nitrogen cycle with sketch in detail	U /
	(b)	Narrate renewable and nonrenewable natural resources. What are stresses	07
	(8)	produced by human-being by overexploitations of them?	0,
		produced by named complete and the control of the c	
Q.4	(a)	Describe in detail types of forest resources and what are problems created	07
	()	by deforestations in India?	
	(b)		07
	()	results of overpopulation	
Q.5	(a)	Why we are now harvesting rain water? What are problems of water quality	07
		in India?	
	(b)	What are causes of Environmental Pollution? . List all Environmental	07
		Pollution and their sources in detail	

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- Q.6 (a) Narrate in detail major sources and pollution produced by uses of 07 nonrenewable energy sources? What are renewable resources which can replace them so that Environmental pollution is reduced
 - (b) Describe types of forest resources and their uses and overuses and effects of 07 that activity of human
- Q.7 (a) Enlist Global Environmental pollution problems. Describe one in detail 07 and suggest remedial measures to reduce them
 - (b) "Discharging used water in river is not solution of pollution" Explain in 07 detail
