## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER V • EXAMINATION - WINTER - 2012** 

Subject code: 151304	Date: 23-01-2013
<b>Subject Name: Environmental Resources</b>	
Time: 02:30 pm to 05:00 pm	Total Marks: 70

**Instructions:** 

1.	Attempt all	questions.
	1 LUCCIII PU MII	questions

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Write a short note on "Recycling & Reuse of Wastewater as a source of water resource"	07
	<b>(b)</b>	Write a note on "Rain water harvesting as a step to Conservation of water"	07
Q.2	(a)	How mining activities affect the environment?	07
	<b>(b)</b>	Enlist the reasons for deforestation and explain any one in detail.	07
		OR	
	<b>(b)</b>	Enlist the reasons for desertification and explain any one in detail.	07
Q.3	(a)	Derive the basic equation of population dynamics.	07
	<b>(b)</b>	Enlist methods of population forecasting and explain any one in detail.  OR	07
Q.3	(a)	Write a note on "Environmental consequences of rapid population growth"	07
	<b>(b)</b>	Explain Malthusian theory of Maximum Population.	07
Q.4	(a)	Define renewable and nonrenewable energy resources and give detail classification of both resources.	07
	<b>(b)</b>	Write a short note on "Use of fossil fuel and environmental impacts"	07
		OR	
<b>Q.4</b>	(a)	Define (In terms of energy resources ):	08
		Stock, Reserve, Static reserve index, Exponential reserve index.	
	<b>(b)</b>	Explain Wind Energy as an alternative energy resource.	06
Q.5	(a)	Write a short note on "Carbon Footprint and environment"	07
	<b>(b)</b>	What is CDM? Explain role of CDM in environmental issues.  OR	07
Q.5	(a)	Enlist national and international environmental movements	07
	<b>(b)</b>	Enlist the parameters for Standards of Living and Quality of life	07

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