

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER V • EXAMINATION – WINTER - 2012****Subject code: 151304****Date: 23-01-2013****Subject Name: Environmental Resources****Time: 02:30 pm to 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all 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) 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) Enlist the reasons for deforestation and explain any one in detail. **07**

OR

(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) Enlist methods of population forecasting and explain any one in detail. **07**

OR

Q.3 (a) Write a note on “Environmental consequences of rapid population growth “ **07**

(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) Write a short note on “ Use of fossil fuel and environmental impacts ” **07**

OR

Q.4 (a) Define (In terms of energy resources) : **08**
Stock, Reserve, Static reserve index, Exponential reserve index.

(b) Explain Wind Energy as an alternative energy resource. **06**

Q.5 (a) Write a short note on “ Carbon Footprint and environment ” **07**

(b) What is CDM ? Explain role of CDM in environmental issues. **07**

OR

Q.5 (a) Enlist national and international environmental movements **07**

(b) Enlist the parameters for Standards of Living and Quality of life **07**
