Seat No.:	F 1 (N)
Seat No.	Enrolment No.
Deat 110	Emplication.

## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- 1<sup>st</sup> / 2<sup>nd</sup> • EXAMINATION - WINTER 2013

Subject Code: 110007 Date: 18-12-2013 **Subject Name: Environmental Studies** Time: 10:30 am - 01:00 pm**Total Marks: 70 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** Industrial revolution plays a major role in degrading the environment. Justify the 7 (a) statement. (b) Discuss the importance of environmental studies. Explain the components of 7 environment. **Q.2** Differentiate food chain and food web. Explain the concept of "flow of energy in 7 (a) an ecosystem". (b) What are ecological pyramids? Discuss in brief. 7 **Q.3** Discuss the objectives of ecology and explain how Nitrogen cycle helps in 7 (a) maintaining ecological balance. Define ecosystem. Enumerate different types of ecosystem and explain any two. 7 (b) **Q.4** 7 (a) Define Zero population growth. Discuss the factors affecting population growth and effect of population explosion on environment. What is the ecological importance of forest? Discuss the causes and consequences 7 (b) of deforestation. 7 Discuss the merits and demerits of nuclear energy options. Discuss the impact of **Q.5** (a) fossil fuel usage on environment. (b) What are the sources of water pollution? Explain Eutrophication and its harmful 7 effect. Q. 6 Write classification of air pollutants. Discuss the effects of air pollution on human 7 (a) Name the gases responsible for global warming. Write causes and effects of 7 (b) global warming on global climate. 7 **Q.7** (a) Differentiate deforestation and desertification. Discuss the effect of land pollution and control measures. 7 Explain how acid rain is formed. Discuss its ill effects (b)

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