

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER –I • EXAMINATION – WINTER 2012

Subject code: 110007**Date: 12-01-2013****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 (a)** Define/Explain ANY SEVEN of followings: (1) Biomes (2) Carnivores (3) Malnutrition (4) Springs (5) Afforestation (6) Tropical Forests (7) Fuel cell (8) Potable water (9) Solid Waste Management (10) CFC's (11) Biomagnifications (12) Minamata (13) Fog (14) Soot 7
- (b)** Choose the most correct answer of the following multiple choice question: [7
ANY SEVEN]
- 1 Which of the following is an example of impact of the development activities on hydrosphere?
 (a) Air pollution (b) Soil pollution (c) Noise pollution (d) Water pollution
 - 2 Short term properties of the atmosphere at a given place and time is referred as,
 (a) Climate (b) Microclimate (c) Season (d) Weather
 - 3 Most stable ecosystem is,
 (a) Forest (b) Desert (c) Ocean (d) Mountain
 - 4 Which of the following statement about the forest is not correct,
 (a) Forest reduces soil erosion (b) Provides recreational opportunities
 (c) Provides economic development (d) None of the above
 - 5 Lignite, Bituminous and Anthracite are different types of,
 (a) Nuclear fuel (b) Coal (c) Natural gas (d) Biogas
 - 6 Study of trends in human population growth and prediction of future growth is called,
 (a) Demography (b) Biography (c) Paleography (d) Psychology
 - 7 Global warming could affect,
 (a) Climate (b) Food production (c) Melting of glaciers (d) All of the above
 - 8 Which of the following is not a method for water conservation,
 (a) Rainwater harvesting (b) Ground water extraction
 (c) Improving irrigation efficiency (d) Avoiding water wastage
- Q.2 (a)** Write a short note on : "Environmental Degradation" 3
- (b)** Explain the scope of Ecology. 4
- (c)** Write a short note on “Marine Ecosystem”. 7
- Q.3 (a)** How population growth can be controlled. 3
- (b)** Write a short note on - population structures. 4
- (c)** Write a short note on-destruction versus conservation. 7

Q.4	(a) What is deforestation? What are the major causes of deforestation?	7
	(b) What are the uses of water?	7
Q.5	(a) Write advantages, disadvantages and application of solar energy.	3
	(b) Write a short note on environmental problems associated with coal based thermal power plants.	4
	(c) Write a short note on : Eutrophication	7
Q.6	(a) Explain the effects of air pollution on climate and aesthetic beauty.	3
	(b) Define the air pollution. Give the classification of air pollutants.	4
	(c) What is land degradation and what are the causes of land degradation.	7
Q.7	(a) Explain the different uses of land.	3
	(b) Explain by drawing sketch: Green house effect.	4
	(c) Write down the causes and environmental effect of acid rain.	7
