

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA Integrated - SEMESTER- VI- EXAMINATION – WINTER 2018**

**Subject Code: 4460603****Date: 03-12-2018****Subject Name: Environmental Studies (ES)****Time: 02.30 pm to 5.00 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) Explain the following terms: **07**  
     i. Solar Energy  
     ii. Land Pollution  
 (b) Define Environmental Studies. Discuss its scope and importance. **07**
- Q.2** (a) Draw and explain Water Cycle. **07**  
 (b) Explain Marine Pollution and discuss the specific causes that pollute marine water. **07**
- OR**
- (b) What are the causes and effect of Deforestation **07**
- Q.3** (a) Write about any two natural renewable resources and describe two problems associated with each of them **07**  
 (b) Write about function of Producers, Consumers and Decomposers in an ecosystem **07**
- OR**
- Q.3** (a) Water resources are depleting fast in India and water is a necessity for life. Suggest three measures to conserve water for better management of the world's water resources. **07**  
 (b) Define and differentiate between food chain and food web with a diagram **07**
- Q.4** (a) Write about some of the control measure for Air Pollution. **07**  
 (b) Rooftop Rainwater Harvesting can be done to recharge ground water. Explain this technique with the help of a conceptual diagram. **07**
- OR**
- Q.4** (a) Mention at least seven steps that you as an individual can take to prevent pollution? **07**  
 (b) Explain the following terms: **07**  
     i. Global Warming  
     ii. Acid Rain
- Q.5** (a) Discuss with an example, how climate affects human health. **07**  
 (b) How many types of Spheres are there? Explain any two. **07**
- OR**
- Q.5** (a) Draw and explain Nitrogen Cycle. **07**  
 (b) Explain Solid Waste Management with control measures of Urban and Industrial Wastes **07**

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