

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER 1&2 EXAMINATION – SUMMER 2020

Subject Code: 3110007

Date: 07/11/2020

Subject Name: Environmental Sciences

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	Marks
<b>Q.1</b> (a) With proper example differentiate between Pollution and Pollutants.	<b>03</b>
(b) Define the following Terms: (i) Environment (ii) Environmental Degradation (iii) Global Warming (iv) sustainable development	<b>04</b>
(c) Discuss about the need of environmental education in various engineering discipline?	<b>07</b>
<b>Q.2</b> (a) Define the following Terms: (i) Water Pollution (ii) Noise (iii) Biomedical waste	<b>03</b>
(b) Write a brief note on “Eutrophication.”	<b>04</b>
(c) State the parameters of water which are to be tested for determining the quality of water and explain any four.	<b>07</b>
<b>OR</b>	
(c) Discuss about the Biomedical waste management practices done in India for the disposal of biomedical waste.	<b>07</b>
<b>Q.3</b> (a) Give the Classification of Air Pollutants.	<b>03</b>
(b) List down the sources of Carbon Monoxide and also discuss about the effect of it on Human Health.	<b>04</b>
(c) Explain the Structure of atmosphere in detail.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Define E-waste. State the need of E-waste management.	<b>03</b>
(b) Enlist the effects of Noise Pollution on Human Health.	<b>04</b>
(c) Enlist the various metals/ metallic compound present in the E-Waste and also discuss about the effects of such compounds on human health and Environment.	<b>07</b>
<b>Q.4</b> (a) Enlist the various form of Environmental Pollution and discuss about the pollution caused by improper management of solid waste.	<b>03</b>
(b) Discuss about the need of sustainable development for this era.	<b>04</b>
(c) Write a detail note on “Clean Development Mechanism”.	<b>07</b>

**OR**

- Q.4** (a) Differentiate between Global Warming and green house effect. **03**  
(b) List down the chemicals responsible for the ozone layer depletion. **04**  
(c) Write a detail note on “Carbon Footprint”. **07**

- Q.5** (a) Explain the concept of smart City. **03**  
(b) With example explain the features of Green Building. **04**  
(c) Write a note on “Fundamental Principles of Green Building” **07**

**OR**

- Q.5** (a) Differentiate between the concept of Recycle and Reuse. **03**  
(b) Enlist the benefits of Green Building. **04**  
(c) Discuss how the 4R’s concept is useful to protect the environment. **07**

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