

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

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**
