

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– I & II (NEW) EXAMINATION – WINTER 2019****Subject Code: 3110007****Date: 16/01/2020****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) Enlist various types of environmental pollutions.	<b>03</b>
	(b) List scope & principles of environmental sciences & explain any one in detail.	<b>04</b>
	(c) Explain the role of various engineering disciplines in environmental protection.	<b>07</b>
<b>Q.2</b>	(a) Explain the effects of turbidity on drinking water quality.	<b>03</b>
	(b) Give the classification of water pollutants.	<b>04</b>
	(c) Write a short note on Global warming.	<b>07</b>
	<b>OR</b>	
	(c) Write a short note on Acid rain.	<b>07</b>
<b>Q.3</b>	(a) Explain the benefits of Green building.	<b>03</b>
	(b) Give the classification of Air Pollutants.	<b>04</b>
	(c) Explain the effects of any two air pollutants on human health & properties.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Name the organizations involved in Green building rating system.	<b>03</b>
	(b) What is E – waste? Enlist sources of E – waste.	<b>04</b>
	(c) Difference between Sound & Noise. Discuss sources & effects of Noise pollution.	<b>07</b>
<b>Q.4</b>	(a) Explain examples of paper recycle & reuse.	<b>03</b>
	(b) Define sustainable development.	<b>04</b>
	(c) Enlist & Explain the factors affecting municipal solid waste generation.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Explain examples of plastic recycle & reuse.	<b>03</b>
	(b) Enlist the mitigation measures for climate change.	<b>04</b>
	(c) Explain need of 4R concept for waste minimization.	<b>07</b>
<b>Q.5</b>	(a) What do you understand by carbon footprint?	<b>03</b>
	(b) Distinguish between primary & Secondary carbon footprint.	<b>04</b>
	(c) Write a brief note on concept of Green Building.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Explain Clean Development Mechanism (CDM)	<b>03</b>
	(b) Explain the effects of Ozone depletion on Human health & plants.	<b>04</b>
	(c) Write a brief note on concept of Smart City.	<b>07</b>

\*\*\*\*\*