

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
Q.1	(a) Enlist various types of environmental pollutions.	03
	(b) List scope & principles of environmental sciences & explain any one in detail.	04
	(c) Explain the role of various engineering disciplines in environmental protection.	07
Q.2	(a) Explain the effects of turbidity on drinking water quality.	03
	(b) Give the classification of water pollutants.	04
	(c) Write a short note on Global warming.	07
OR		
	(c) Write a short note on Acid rain.	07
Q.3	(a) Explain the benefits of Green building.	03
	(b) Give the classification of Air Pollutants.	04
	(c) Explain the effects of any two air pollutants on human health & properties.	07
OR		
Q.3	(a) Name the organizations involved in Green building rating system.	03
	(b) What is E – waste? Enlist sources of E – waste.	04
	(c) Difference between Sound & Noise. Discuss sources & effects of Noise pollution.	07
Q.4	(a) Explain examples of paper recycle & reuse.	03
	(b) Define sustainable development.	04
	(c) Enlist & Explain the factors affecting municipal solid waste generation.	07
OR		
Q.4	(a) Explain examples of plastic recycle & reuse.	03
	(b) Enlist the mitigation measures for climate change.	04
	(c) Explain need of 4R concept for waste minimization.	07
Q.5	(a) What do you understand by carbon footprint?	03
	(b) Distinguish between primary & Secondary carbon footprint.	04
	(c) Write a brief note on concept of Green Building.	07
OR		
Q.5	(a) Explain Clean Development Mechanism (CDM)	03
	(b) Explain the effects of Ozone depletion on Human health & plants.	04
	(c) Write a brief note on concept of Smart City.	07
