

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV(NEW) EXAMINATION – WINTER 2022****Subject Code:3144006****Date:16-12-2022****Subject Name:Environmental Sustainability****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.
4. Simple and non-programmable scientific calculators are allowed.

	MARKS
Q.1 (a) Give difference between renewable and non-renewable energy sources.	03
(b) Write the principles for Green Chemistry.	04
(c) List out various air pollutants and explain them with examples.	07
Q.2 (a) Give few examples for semi-renewable energy resources.	03
(b) Give difference between environment and ecosystem.	04
(c) List out various types of pollutions. Give causes and effects for any two of them.	07
OR	
(c) Give causes and effects for water pollution.	07
Q.3 (a) Mention the pillars of sustainable development.	03
(b) Explain Tidal energy.	04
(c) Explain the policies to promote environmental sustainability?	07
OR	
Q.3 (a) Justify the reason for adapting the green chemistry.	03
(b) What does the term carbon footprint mean? Give ways to reduce it.	04
(c) Write short note on Farmlands.	07
Q.4 (a) What do you understand by sustainable living?	03
(b) List out the advantages for using solar energy.	04
(c) Write a short note fishing stock.	07
OR	
Q.4 (a) Explain the concept of Cleaner Production.	03
(b) Mention the checklist for good housekeeping.	04
(c) What do you understand by health ecosystem?	07
Q.5 (a) What do you mean by CEPI Index?	03
(b) Explain Carbon tax.	04
(c) Explain the socio-ecological aspect of sustainable development.	07
OR	
Q.5 (a) Write advantages of cleaner production.	03
(b) Draw flowchart for classifications of ecosystem.	04
(c) Give guidelines of APO on Green Productivity	07
