

Enrolment No./Seat No _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-IV (NEW) EXAMINATION – WINTER 2024

Subject Code:3144006

Date:26-11-2024

Subject Name:Environmental Sustainability

Time:02:30 PM TO 05:00 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) Define Cleaner Production.	03
(b) Explain environmental and economic pillars of the sustainability.	04
(c) What is carbon footprint. Explain how it can be reduced?	07
Q.2 (a) How health of resources can be protected?	03
(b) Discuss the scope and challenges of using solar energy.	04
(c) Is carbon tax good or bad for a country? Justify your answer with example.	07
OR	
(c) What are the guidelines of APO? Where is it applicable?	07
Q.3 (a) Define Eco-System with an example.	03
(b) “Environmental Sustainability is a myth in modern world”. Give your comment on the proposed statement.	04
(c) Explain the principles of sustainable development.	07
OR	
Q.3 (a) What is CEPI index?	03
(b) Write a short note on semi renewable sources of energy.	04
(c) Explain effects of pollutants on sustainability.	07
Q.4 (a) What is composting?	03
(b) Enlist types of pollutants.	04
(c) What is deforestation? What are the causes of deforestation? And explain their impact on the environment.	07
OR	
Q.4 (a) What is the main purpose behind setting up the Central Pollution Control Board (CPCB)?	03
(b) How the technological and political affect the sustainable development?	04
(c) Enlist the renewable resources. Explain any two.	07
Q.5 (a) In which layer of atmosphere, the Ozone shield is found?	03
(b) Write a short note on Green Productivity.	04
(c) Differentiate: Renewable energy resources and non-renewable energy resources.	07

OR

- Q.5** (a) Define geo-thermal energy. **03**
(b) What are the terms considered in Good-house-keeping checklist? **04**
(c) Explain how government policies promote the environmental sustainability. **07**
