

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2022****Subject Code:3144006****Date:02-07-2022****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
<b>Q.1</b>	(a) What are the different types of pollution? Describe the causes and effect of any one pollution on the environment.	<b>03</b>
	(b) Define ecosystem? What are the classifications of ecosystem?	<b>04</b>
	(c) Describe the pillars of sustainable development?	<b>07</b>
<b>Q.2</b>	(a) Why is green chemistry required?	<b>03</b>
	(b) What are the classifications of air pollutants? Explain with examples.	<b>04</b>
	(c) What are the principles of green chemistry?	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(c) Describe the socio-ecological aspect of sustainable development.	<b>07</b>
	(a) What is sustainable living? What are the different ways of sustainable living?	<b>03</b>
	(b) What do you mean by the concept of cleaner production and what are its advantages?	<b>04</b>
	(c) What is green productivity concept? Describe the green productivity methodology.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Differentiate between renewable and non-renewable resources.	<b>03</b>
	(b) What is carbon tax? Why should it be implemented?	<b>04</b>
	(c) Explain how forests help in maintaining ecological balance.	<b>07</b>
<b>Q.4</b>	(a) What is semi-renewable resources? Give examples.	<b>03</b>
	(b) Write a note on geo-thermal and tidal energy.	<b>04</b>
	(c) What are the different sources of energy? Why is it necessary to shift to renewable resources?	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Differentiate between environment and ecosystem.	<b>03</b>
	(b) What are the policies to promote environmental sustainability?	<b>04</b>
	(c) What are the different acts related to the environment followed in India? Explain any one of them.	<b>07</b>
<b>Q.5</b>	(a) How can water pollution be controlled?	<b>03</b>
	(b) Discuss the influences of environmental subsidies on green investment.	<b>04</b>
	(c) What is environmental sustainability? How can it be achieved?	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Discuss the issues of environmental sustainability.	<b>03</b>
	(b) What are the concepts of green productivity? Discuss the green productivity methodology.	<b>04</b>
	(c) What is CEPI? How CEPI score is calculated?	<b>07</b>

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