

Reg. No.:

Name :



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**TERM END EXAMINATIONS (TEE) – May 2023**

<b>Programme</b>	<b>:</b>	<b>B.Tech.</b>	<b>Semester</b>	<b>:</b>	<b>Summer Semester 2022-23</b>
<b>Course Title</b>	<b>:</b>	<b>Environmental Sustainability / CHY1006</b>	<b>Slot</b>	<b>:</b>	<b>B11+B12+B13</b>
<b>Time</b>	<b>:</b>	<b>1½ hours</b>	<b>Max. Marks</b>	<b>:</b>	<b>50</b>

**Answer ALL the Questions**

Q. No.	Question Description	Marks
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**PART - A ( 30 Marks)**

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|---|---|----|
| 1 | (a) “Technology can be developed to create systems that are environmentally sustainable.” To support the statement write five ways how technology can support the environmental sustainability. | 10 |
|---|---|----|

OR

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| (b) | Draw and explain the sedimentary cycle that describes the movement of phosphorus through the lithosphere, hydrosphere, and biosphere. Why Phosphorus cycle is different from any other biogeochemical cycle? | 10 |
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| 2 | (a) ‘Global warming is a global warning’ justify the statement by giving an example of any natural disaster in context of India. | 10 |
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OR

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| (b) | “Smog in Delhi is an ongoing severe air-pollution event in New Delhi and adjoining areas in the National Capital Territory of India.”. Write a note on air pollution with reference to the above statement and mention the names of different types of air pollutants. | 10 |
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| 3 | (a) The population growth affects social, economic and environmental issues of India in different ways. Discuss the ways and mention the importance of age structure in population growth. | 10 |
|---|--|----|

OR

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| (b) | In many countries, most energy sources for doing work are non- renewable energy sources. Discuss the different types of renewable and non- renewable sources of energy and explain the difference between the two. | 10 |
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**PART - B (20 Marks)**

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|---|---|----|
| 4 | Ecosystem is not static, they are dynamic systems in time and space .How can we say that static ecosystem is a dead ecosystem? Write your answer with reference to some examples explaining the types of ecosystem. | 10 |
|---|---|----|

- 5      Clean coal technology seeks to reduce harsh environmental effects by using      10  
multiple technologies to clean coal and contain its emissions. Draw and  
explain the different steps involved into it.

