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TERM END EXAMINATIONS (TEE) – December 2021- January 2022

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|---------------------|---------------------------------------|------------------------|----------|---------------------|
| Programme | : B.Tech. – | Semester | : | Fall 2021-22 |
| Course Name | : Environmental Sustainability | Course Code | : | CHY1006 |
| Faculty Name | : Dr. Shweta Mukherjee | Slot / Class No | : | B13 / 0177 |
| Time | : 1½ hours | Max. Marks | : | 50 |

Answer ALL the Questions

| Q. No. | Question Description | Marks |
|-----------------------------|---|-------|
| PART - A (30 Marks) | | |
| 1 | (a) “Technology has caused many environmental and social problems, but it is also a key to addressing environmental issues.” Elaborate the sentence by discussing the different environmental problems and its solution through technology | 10 |
| OR | | |
| | (b) There is a combination of factors which are suspected as threats to terrestrial and aquatic biodiversity. What are the various threats to terrestrial and aquatic biodiversity? Discuss in detail. | 10 |
| 2 | (a) Discuss any two important international environmental agreements in detail. Explain the target and give a brief description of the environmental issues involved in the protocols | 10 |
| OR | | |
| | (b) How population growth in India affects the social, economic and environmental issues in the country. Why does age structure matter in population? | 10 |
| 3 | (a) Urbanization is very common in developing and developed worlds as more and more people have the tendency of moving closer to towns and cities to acquire “privileged” social and economic services as well as benefits. Discuss the causes, effects and solutions to urbanization | 10 |
| OR | | |
| | (b) In the United States and many other countries, most energy sources for doing work are non- renewable energy sources. Write the different types of renewable and non- renewable sources of energy and explain the difference between the two. | 10 |
| PART - B (20 Marks) | | |
| 4 | Show how nitrogen moves from atmosphere to earth, through soils and back to the atmosphere in an endless cycle. Explain different phenomenon involved in the cycle. | 10 |

- 5 How energy conservation is different from energy sustainability? 10
Explain in detail and write different ways of energy conservation as well as energy sustainability.

