Reg. No.:

Name :

TERM END EXAMINATIONS (TEE) – May 2023

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

Answer ALL the Questions

Q. No.		Question Description	Marks
		PART - A (30 Marks)	
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	
	(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
2	(a)	**'Global warming is a global warning'** justify the statement by giving an example of any natural disaster in context of India.	10
		OR	
	(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
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	
	(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
		PART - B (20 Marks)	
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 multiple technologies to clean coal and contain its emissions. Draw and explain the different steps involved into it. 10

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