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TERM END EXAMINATIONS (TEE) – January 2021

Programme	B.Tech. (All branches)	Semester	Fall 2020-2021
Course Name	Environmental Science	Course Code	CHY1002
Faculty Name	Dr. Sumit Mittal	Slot / Class No	A11+A12 /1352
Time	1½ hours	Max. Marks	50

Answer ALL the Questions

Q. No.	Question Description	Marks
PART - A – (3 x 10 = 30 Marks)		
1	(a) “Ecosystems are not static, but dynamics systems in time and space”. Justify the statement.	10
	OR	
	(b) Biodiversity can be examined at different levels. Enumerate the three hierarchical levels in detail.	10
2	(a) Mention risks associated and waste management strategies that you will adopt to manage the waste from: <ul style="list-style-type: none">• Hospital• Kitchen• Nuclear power plant	10
	OR	
	(b) “Industries involved in generation of electricity through nuclear power plants are spreading a myth through popular magazines and newspapers that nuclear power is environmentally friendly, because it does not contribute to greenhouse effect”. Justify the given statement. Also describe the merits and demerits of nuclear power energy.	10
3	(a) Discuss more effective strategies to implement the environmental impact assessment for new developmental projects.	10
	OR	
	(b) Discuss the major components of population growth and analyse in detail the age structure with the help of population pyramid.	10

Part - B – (2 x 10 = 20 Marks)

- 4 **A.** One of the great unknowns in environmental science is to predict how will forests respond to climate change. Think and suggest a scientific strategy/approach to analyse this complex question. Explain with a suitable example. 10
- B.** The amount of light, nutrients, temperature, CO₂, and H₂O are five of the major environmental determinants of productivity in an ecosystem. For each of the following ecosystems, assess the relative importance of each of these factors and identify the determinant which would be most likely and least likely to limit primary production.
- Pacific ocean
 - Stream
- 5 **A.** As the CEO of a private sector, you have to solve the energy crisis in your company. Discuss the factors you will consider to choose the source of energy for your company. 10
- B.** Describe the steps involved in the process of EIA. Mention the key changes proposed in EIA draft 2020 that will impact the EIA process.

