Environmental Science and Technology

(End Exam- 2024)

Time: 120 minutes	Total Mai	rks: 50
Instructions: 1. Write answers as <u>POINTS</u> only 2. Write only <u>RELEVANT POINTS DISCUSSED IN TE</u>	IE CLASS	
A. Computer components One of the following [write number in the bracket] (5 Marks) [One or two sentences] [COs-1,3,5] A. Computer components Chemical constituents A. Cadmium Computer batteries A. Cadmium A. Cadmium A. Cadmium B. Poly Chlorinated Bi pheny C. Poly Vinyl Chloride A. Lead & cadmium A. Methyl Chloride A. Methyl chloride C. Mold, bacteria A. Paint stripper / thinner C. Mold, bacteria A. Para dichloro benzene A. Switches & flat screen monitors A. Lead & cadmium C. Poly Vinyl Chloride C. Mold, bacteria A. Methyl chloride C. Mold, bacteria A. Para dichloro benzene C. Mold, bacteria C. Mold, bacteria	[
Section III: Give an example (5 marks) [COs-1, 5] a. Source isolation strategy in indoor air quality maintenance b. No Money: No Existence c. Conservation ethics d. Green website e: Non-Marketed Environment	ntal Goods	
Section IV: Differentiate between (10 marks) [COs-3,4,5] a Thick and Thin client b Strong and weak sustainability c Green d. Libertarian and Ecological Extension e. Green computing ar	n Tax and Gr nd Green Eng	een Cess
Section-V [10 marks] [COs-1, 4] What are the four factors of production considered in National inco How SEEA has expanded and complemented SNA? How is ventilation measured in mechanically ventilated buildings? What are the negative impacts of Tehri Dam? Relate Hicksian income with Green accounting?		
Section-VI [15 marks] [COs-1, 2, 5, 6] 1. Explain the impact of smart phone/mobile devices production on er 2. Explain the basic difference between anthropocentrism, biocent views on the environment?	nvironment? trism and ed	cocentrism

Explain the impact of Denim manufacturing on water consumption and pollution?

4. What is SNA? Define its framework? Why did the concept of SNA remain so popular for

5. Explain any two Green engineering principles?

longer time (only list the factors)?

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Time: 90 minutes Total Marks: 40

Write only RELEVANT POINTS DISCUSSED IN THE CLASS

Answer the following [6M]

- 1. -----and ----- are two major factors influencing the Doom's Day clock
- What happens in ice-ocean coupling process?
- 3. Why volcanic eruption become more frequent when glaciers melt?
- 4. How Hypercane differs from present day hurricane?
- 5. Give an example for interaction of four spheres of earth system
- 6. What are Oligotrophic lakes?

II. What is [24 M] - [two/three sentences]

- - . Population bottle neck 8. Nuclear winter
- 3. Trophic cascade 9. Ecological pyramids
- Tipping point (10) Elnino
- 5. Graygoo 11. Geophysiology
- 6 Continental Drift Theory 12. Gaia Hypothesis

III. Explain

- ① Application of Thermodynamic Laws in Ecosystem Energy Flow [4M]
- 2. Impact of sea level rise on Sundarbans vegetation [4 points 6M]