

**Environmental Science and Technology****Time: 90 minutes****Total Marks: 40****Write only RELEVANT POINTS DISCUSSED IN THE CLASS****I. Answer the following [6M]**

1. -----and ----- are two major factors influencing the Doom's Day clock
2. 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]**

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|-----------------------------|--------------------------------|
| 1. Grasshopper effect       | 7. Global terrestrial stilling |
| 2. Population bottle neck   | 8. Nuclear winter              |
| 3. Trophic cascade          | 9. Ecological pyramids         |
| 4. 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]