**TU/ CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (AUTUMN) 2024**

**DIPEVMD/ DEM 101: THE ENVIRONMENT: BASIC UNDERSTANDING**

Time: **3 Hours** Total Marks: **70**

*The figures in the right-hand margin indicate marks for the individual question.*

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**All questions are compulsory**.

1. Define the following, (3x1=3)

i) Primary productivity

ii) Pyramid of biomass

iii) Tragedy of the Commons

1. Differentiate between the following, (2x4=8)
2. Kyoto protocol and Montreal protocol
3. Bio-piracy and Patent
4. Illustrate food web with at least 10 numbers of different species in grassland ecosystem. (4)
5. Explain flow of energy in an ecosystem with diagrammatic representation. (5)
6. How does the atmosphere interact with lithosphere and hydrosphere? (5)
7. Discuss the municipal solid waste management and its impact on water resource. (5)
8. Explain the physical and chemical weathering of rocks. (5)
9. Describe the population growth pattern of India. How does a growing human population affect the environment? (3+3=6)
10. What are the various types of biogeochemical cycles in an ecosystem? Elucidate the carbon cycle in an ecosystem, with a diagrammatic representation. (2+5=7)
11. Describe the different types of natural resources. Explain the role of an individual in conservation of natural resources. (4+3=7)
12. What are the underlying causes of human-wildlife conflict. Discuss the potential measures to reduce human-wildlife conflict in India? (3+4=7)
13. Write the three pillars of sustainability? Discuss the interrelationship between Environmental Impact Assessment and Sustainable development. (3+5 =8)

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