**TU/CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (AUTUMN 2022)**

**DEM / DIPEVMD 101: 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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1. Fill in the blanks with correct/appropriate words: 1x10=10

1. The biosphere has evolved since the …………………… originated 3.5 billion years ago.
2. ……………. is a biological state of equilibrium between the different components of an ecosystem.
3. …………………. is a thin buffer zone between the troposphere and the next atmospheric layer, stratosphere.
4. The ability of a community to recover after facing a disturbance or displacement is refer as ……………………….
5. …………………….. has two components: species richness and species evenness.
6. ……………………………… hypothesized relationship between various indicators of environmental degradation and income per capital.
7. The ……………………………. refers to the possibility that polluting industries concentrate in developing countries with low environmental standards.
8. The total energy storage by autotrophs in an ecosystem is referred to as ………………………….
9. The ……………………………… is the primary differences between grazing and detritus food chains.
10. Kyoto protocol is a tool to mitigate climate change through reduction of …………………………

**P.T.O**

2. Answer the following questions:

1. Briefly explain the following: 3x6=18
2. Geographical indications.
3. Fluvial landforms.
4. El Niño and the southern oscillation.
5. Photochemical smog.
6. Temperature inversion.
7. Jet streams.
8. What is biodiversity? Why loss of biodiversity is a big concern for human being? 1+3=4
9. Explain the carbon cycle with diagrammatic representation. 4
10. What are the major greenhouse gases and what are the consequences of greenhouse effect? 4
11. Discuss the environmental problems associated with urbanization. 5
12. Define EIA. How the procedure of EIA enables common people to participate in the development process. 1+4=5
13. Describe the significance of food chain. Explain food web with diagrammatic representation. 3+3=6
14. Define ecosystem services? Write a brief note on Provisioning services, regulating services and Supporting services. 1+6=7
15. Explain the climate of India? What is the role of Thar Desert and the Himalayas in the climate of India? 3+4=7

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