**TU/CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (SPRING) 2021**

**DEM 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: 1x10=10

1. Organism that obtains nutrients from the dead and decaying bodies of other organisms called ……………………………
2. The actual location or place where an organism lives is called ……………….…………………
3. Phosphate and nitrate found in runoff of chemically fertilized fields are most likely to cause ………………. in water bodies.
4. The ecosystems that account for the largest amount of Earth's net primary productivity is …………….…….….
5. The phenomenon in which high levels of carbon monoxide cause global warming is known as ………………………
6. ……………………….. are the specialized root structures that grow out from the water surface and facilitates in root respiration.
7. Plants capable to survive in extreme dry conditions are called ……………
8. ……………………………. is an oxidizing smog, characterized by brown, hazy fumes which causes irritation of eyes and lungs.
9. Ecological niche defines the……………………………………
10. Pyramid of energy always stands ……………………………

2. State True or False: 1x10=10

1. DNA carries the genetic code for the proteins, making up structural and function units of life.
2. The number of described species, out of all the loving organism is approximately 1.4 million.
3. The profundal zone of the lake ecosystem consists of phyto and zoo planktons.
4. The interaction between algae and fungi to form lichen is called parasitism.

**P.T.O.**

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**P.T.O.**

1. The trophic level of an organism means the feeding relationship of that organism to other organisms in a food.
2. The full form of IPCC is International Panel on Climate Change.
3. Bio-piracy is the theft of biological materials by the process of patent.
4. The study of plants and animals according to geographical distribution is called biogeography.
5. All the energy that enters in biotic part of the ecosystem is lost as heat energy.
6. Salt-loving plants are known as hydrophytes.

3. Distinguish between the following: 4x5=20

1. Pyramid of energy and Pyramid of biomass
2. Kyoto protocol and Montreal protocol
3. Renewable and non-renewable natural resources
4. Bio-piracy and Patent
5. Troposphere and stratosphere

4. What do you mean by Intellectual property rights (IPR)? Write briefly

about the basic rights related with IPR. 1+3=4

5. What is EIA? Why there is need to conduct an EIA for major river valley

projects? 1+3=4

6. How human health and environment is related to each other? 4

7. Explain the flow of energy in an ecosystem with diagrammatic

representation. 4

8. Discuss the municipal solid waste management and its impact on water

resource. 4

9. Describe the interaction among the different components of the

environment. 5

10. Explain the causes and consequences of deforestation. 5

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