**TU/ CODL**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (AUTUMN) 2019**

**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 with correct/appropriate words: 1x10=10

1. ………………………………is the structural and functional ecological unit of a natural system and natural phenomenon within their boundaries without any massive human intervention.
2. …………………………………….seek to protect the rights of intellectual property owners to enable them to reap the rewards of their creativity.
3. Minamata incident was the first known case of bioaccumulation of toxic substance methylmercury (MeHg) in fish and shellfish, which when eaten by the local populace resulted in……………
4. ………………………….is characterized by moderate nutrient status and productivity.
5. The portion of water body which is well illuminated and warm is called the………
6. ………….is maintained in any system as long as the harvesting/consumption is below its carrying capacity.
7. ………………allows a country with an emission-reduction or emission-limitation commitment under the Kyoto Protocol to implement an emission-reduction project in developing countries.
8. IPCC stands for………which was established by the World Meteorological Organization and the United Nations Environment Programme in 1988.
9. The process of making synthetic fertilizers for use in agriculture by combining atmospheric nitrogen and hydrogen is known as the …………
10. ……………….shows the characteristics of cold climates and high elevation with acidic and humus rich soil.

2. Briefly explain the following: 3x6=18

1. Environmental problems associated with urbanization
2. Environmental sustainability
3. Acid rain
4. Ecosystem services
5. Radiation inversion
6. El Niño and the southern oscillation

3. What are natural resources? How human populations are affecting

the natural resources? 2+3=5

4. Define EIA. How the procedure of EIA enables common people to

participate in the development process. 1+4=5

5. Describe the food chain and food web with diagrammatic

representation. 5

6. What are the types of landforms associated with fluvial erosion?

Explain any two. 2+4=6

7. What are the different components of environment? Describe how

these components are closely interrelated with each other. 2+5=7

8. Explain the carbon cycle. How the natural carbon cycle is affected

by human intervention? 4+3=7

9. Write a brief note on biotic and abiotic components of ecosystem.

Explain the flow of energy in ecosystem. 3+4=7

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