**TU/CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (AUTUMN) 2020**

**DRE 101: ENERGY AND ENVIRONMENT**

Time: **3 hours** Full marks: **70**

*The figure in the right-hand margin indicates marks for the individual question(s)*

*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

1. Answer the following questions briefly: 2×5=10

1. Name the components of the biosphere.
2. Name the major air pollutants produced from fossil fuel burning.
3. Name the fossil fuel and renewable fuel which have methane as its dominant constituent.
4. Name the major sources of SPM.
5. Name two GHGs emitted by agricultural practices.

2. Write briefly on **any four** of the following: 6×4=24

1. Discuss the components of an ecosystem with suitable examples.
2. India’s Renewable energy scenario
3. Energy and energy quality
4. Coal resources in India
5. Impact of use of biobased energy sources in the environment
6. GHG effect on natural processes

3. Answer **any three** of the following questions: 3x12= 36

1. “Energy transformation in ecosystems can also be explained in relation to the laws of Thermodynamics” – in the light of the above statement. Discuss the laws governing energy transformation in an ecosystem.
2. “Oil accounts for a large percentage of the world’s energy consumption but the problem associated with this dependence on oil is the extremely damaging effects that production, distribution, and use have on the environment” – Discuss the major environmental concerns of fossil fuel extraction, processing and use.

**P.T.O.**

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1. Discuss the various provisions and laws in India relating to protection of environment.
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