**TU/ CODL**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (SPRING) 2019**

**DRE 101: ENERGY AND ENVIRONMENT**

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

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

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1. Justify the following statements: 2×7=14

1. Biological diversity is one of the important resources on earth.
2. Bioenergy resources and fossil fuel resources differ greatly in terms of energy density
3. Farming activities are one of the major contributors to the GHG emission
4. Future energy systems are supposed to possess a number of pre-requisite parameters
5. India’s energy scenario is dominated by coal based resources
6. Ecosystem consists of a number of components
7. There are a number of man-made causes of global warming

2. Answer **any five** of the following briefly: 4×5=20

1. Food vs. fuel debate
2. Environmental laws on pollution control
3. UNFCCC and IPCC
4. Challenges to sustainable energy development
5. Energy scenario of north-east India
6. Energy and energy quality
7. Importance of energy conservation and management

3. Attempt **any three** questions from the following:

1. “Adoption of Renewable Energy Technology is one of the core issues in sustainable development”- discuss the statement in the light of socio-economic and rural employment impacts of renewable Energy. 6+6=12
2. “It is now a worldwide concern that the global warming occurring today have been speeded up because of man's activities” – elaborate the various man-made causes of global warming and various impacts of global warming. 6+6=12

**P.T.O.**

1. “The environmental impact of the burning of fossil fuels has been profound and nothing short of disastrous”, Discuss the impact of fossil fuel use on environment, and elaborate the major environmental concerns of conventional energy extraction. 6+6=12
2. “India is increasingly dependent on imported fossil fuels as demand continues to rise” – discuss the statement in terms of current fossil fuel resources and reserves of the country and future projections. 6+6=12

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