**TU/CDOE**

**TEZPUR UNIVERSITY**

**SEMESTER END EXAMINATION (SPRING) 2021**

**DRE101: 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 **any five** of the following statements: 2×5=10

1. Biofuels and fossil fuels differ in terms of their energy density
2. Traditional agricultural practice is one of the contributors to climate change
3. Parties to the UNFCCC have common but differentiated responsibilities
4. Energy storage plays an important role in development of future energy systems and helps to create a more flexible and reliable grid system
5. There are many levels of organizations in an Ecosystem and operate hierarchically
6. A food chain depicts how energy is transferred from one living organism to another via food

2. Write short notes on **any six** of the following: 4×6=24

1. Future Energy Systems
2. Sustainable Development Goals: Role of Renewable Energy
3. India's Intended Nationally Determined Contribution
4. Coal as a feedstock for power generation: concerns for the future
5. Potential of Renewable Energy in north-east India
6. Municipal Solod Waste as a source of renewable energy
7. Environmental laws on pollution control

3. Answer **any three** of the following questions: 12×3=36

1. “There are many “natural” and “anthropogenic” (human-induced) factors that contribute to climate change” – Discuss the above statement with suitable examples.
2. What do you mean by ecosystem? Cite three ecosystems that you have seen. Elaborate the components of an ecosystem.

**P.T.O.**

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1. “The true costs fossil fuels aren’t always obvious – but their impacts can be disastrous” – Discuss the environmental consequences of using fossil fuels? Suggest some steps to minimise the pollution caused by various sources of energy including non-conventional sources of energy.
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