

PG/1st Semester/PGET 102

2022

Energy and Environment

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

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| 1. | a) | List atleast five States where coal deposits are concentrated in India. | 3 |
| | b) | Name any three places of oil reserves located in India. | 3 |
| | c) | Describe the Greenhouse effect. | 5 |
| | d) | Name three greenhouse gases. Which one of them produces the maximum green house effect? | 3 |
| | e) | Define the following terms with three examples for each - i) Commercial and Non-commercial Energy. ii) Renewable and Non-renewable Energy | 6 |
| 2. | a) | Explain the primary energy demand in India by fuel with sector wise comparison. | 8 |
| | b) | List the strategies for better energy security of the nation? | 6 |
| | c) | How do an Industry, nation and globe would benefit from energy efficiency programs? | 6 |
| 3. | a) | What is global warming? What are its effects? | 6 |
| | b) | What are the causes of global warming | 7 |
| | c) | Explain the various measures which can help in reducing global warming | 7 |
| 4. | a) | What is ozone layer? How it protects the earth? | 4 |
| | b) | What are the causes of depletion of ozone layer? How it will affect the earth? | 8 |
| | c) | What is an ecosystem? Discuss briefly about the structure/components of ecosystem. | 8 |
| 5. | a) | Elaborates the causes, effects and control measures of: i) Land Pollution | 6x2=12 |

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| | ii) | Water Pollution | |
| | b) | Explain the sources of Air Pollution. | 8 |
| 6. | Write short notes on : i. Pollutant Standard Index (PSI) ii. Kyoto Protocol iii. Acid Rain iv. Stock pollutants and Fund pollutants | | 4x5=20 |

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