TED (21) – 2001 Reg.No……………..

REVISION 2021 Signature…………

DIPLOMA EXAMINATION IN ENGINEERING / TECHNOLOGY / COMMERCIAL PRACTICE / MANAGEMENT, APRIL - 2025

(Common to all Diploma Programmes)

ENVIRONMENTAL SCIENCE

Time: 3 hours Maximum Marks: 75

PART A

1. **Answer all questions in one word or one sentence. Each question carries one mark.**

(9 x 1 = 9 Marks)

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| --- | --- | --- | --- |
| 1 | …….. gas is the main reason for green house effect. | M 2.02 | R |
| 2 | The water Pollution and control act ……………, provides for the prevention and control of water pollution and the maintenance/restoration of the wholesomeness of water | M 4.05 | R |
| 3 | ……… is the main drawback of wind energy. | M 3.03 | R |
| 4 | ISO …….. is a set of standards for companies and organizations of any type that require practical tools to manage their environmental responsibilities | M 4.03 | R |
| 5 | Electrostatic separators make use of the principle, opposite charges ………… each other. | M2.02 | U |
| 6 | Any substance or agent or factor which cause contamination to the environment is called …………….. | M 2.05 | R |
| 7 | ………. is a community of living organisms interacting with each other and their non-living environment | M 1.04 | U |
| 8 | Define E –waste. | M 4.03 | R |
| 9 | ……….. energy is the radiation from the Sun capable of producing heat, causing chemical reactions, or generating electricity | M 3.04 | R |

PART B

1. **Answer any eight questions from the following. Each question carries 3 marks**

(8 x 3 = 24 Marks)

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| 1 | Explain 3R principle use in waste management. | M 4.01 | R |
| 2 | What are the consequences of acid rain? | M 1.05 | U |
| 3 | Write a note on food chain and give proper example. | M 1.03 | U |
| 4 | Write a note on solar pond | M 3.01 | U |
| 5 | Explain the working of catalytic converters | M 2.02 | U |
| 6 | | What are the main effects of noise pollution | M 2.04 | U |
| 7 | | What is wave energy? | M 4.05 | U |
| 8 | | What is the role of Central Pollution Control Board ( CPCB) | M 4.01 | R |
| 9 | | What are the advantages of wind energy? | M 3.03 | U |
| 10 | | Explain ozone layer depletion | M 1.04 | R |

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

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| --- | --- | --- | --- | --- | --- |
| III  IV | | What you mean by producers and consumers in an ecosystem. Give examples.  **OR**  Explain the reason and adverse effects of global warming | M 1.04  M 1.05 | R  U | |
| V  VI | | What are the sources and effects of water pollution?  **OR**  Explain the working of Absorber and Cyclone separator. | M2.03  M2.04 | U  U | |
| VII  VIII | | What is Geothermal energy? Explain its merits  **OR**  Write a note on Bio mass. How can you covert it into Bio gas | M 3.04  M 3.04 | U  U | |
| IX  X | | What you mean by carbon credit and carbon foot print  **OR**  Write a note on Hazardous waste. What are the sources of Hazardous waste? | M4.03  M4.04 | R  U | |
| XI  XII | | Draw phosphorous and sulfur cycle.  **OR**  What are the important water quality parameters? | M 1.01  M 2.05 | U  U | |
| XIII  XIV | Which are the new energy sources?  OR  Which are the main sources of solid wastes? | M 3.03  M 4.04 | | U  U |

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