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)

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | The advantage of wind energy is ……. | M 3.04 | R |
| 2 | …. .. is a toxic waste | M4.02 | U |
| 3 | e-wastes are rejected………. devices | M 4.03 | R |
| 4 | …….. 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 | ……. is a device which use solar energy | M 3.04 | R |
| 6 | ……. is responsible for green house effect. | M 1.05 | R |
| 7 | Define ecosystem. | M 1.04 | U |
| 8 | Air can be purified using ……… | M 2.03 | R |
| 9 | What are primary air pollutants? | M 2.02 | R |

PART B

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

(8 x 3 = 24 Marks)

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | What do you mean by flat plate solar collector | M 3.01 | R |
| 2 | Explain the working of electrostatic precipitator? | M 2.02 | U |
| 3 | What are the types of ecosystems? Give example | M 1.03 | U |
| 4 | Describe the physical characteristics of solid waste | M 4.01 | U |
| 5 | What are the adverse effects of acid rain? | M 1.05 | U |
| 6 | | Explain about ocean tidal energy | M 4.04 | U |
| 7 | | Explain ozone layer depletion. | M 1.05 | U |
| 8 | | Enumerate the adverse effects of noise pollution | M 2.01 | R |
| 9 | | What are the disadvantages of wind energy ? | M 3.03 | U |
| 10 | | What is the role of SPCB | M 3.04 | R |

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| III  IV | Write a note on solar still and Cyclone separator.  **OR**  Explain green house effect by considering its causes and effects. | M2.04  M 1.05 | R  U | |
| V  VI | What are the sources water pollution?  **OR**  Draw and explain sulfur and nitrogen cycles. | M2.03  M 1.04 | U  U | |
| VII  VIII | Explain good alternative sources of energies?  **OR**  Write a note on hydrogen energy | M 3.04  M 3.04 | U  U | |
| IX  X | Explain about hazardous waste?  **OR**  Explain the following  i) carbon credit ii) carbon foot print | M4.03  M4.04 | R  U | |
| XI  XII | Explain food chain and food web with suitable example.  **OR**  What are the important water quality parameters? | M 1.01  M 2.05 | U  U | | |
| XIII  XIV | What are the structural components of an ecosystem  OR  Write a short note on Geothermal energy | M 1.04  M 3.03 | | U  U | |