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)

|  |  |  |  |
| --- | --- | --- | --- |
| IIIIV | Write a note on solar still and Cyclone separator.**OR**Explain green house effect by considering its causes and effects. | M2.04M 1.05 | RU |
| VVI | What are the sources water pollution?**OR** Draw and explain sulfur and nitrogen cycles. | M2.03M 1.04 | UU |
| VIIVIII | Explain good alternative sources of energies?**OR**Write a note on hydrogen energy |  M 3.04M 3.04 | UU |
| IXX | Explain about hazardous waste? **OR** Explain the followingi) carbon credit ii) carbon foot print | M4.03M4.04 | RU |
| XIXII | Explain food chain and food web with suitable example.**OR**What are the important water quality parameters?  | M 1.01M 2.05 | UU |
| XIIIXIV | What are the structural components of an ecosystemORWrite a short note on Geothermal energy | M 1.04M 3.03 | UU |