

[Time: 3 Hours]

[ Marks:70]

Please check whether you have got the right question paper.

- N.B:
1. **All** questions are **compulsory**.
  2. **Draw** neat diagrams wherever necessary.
  3. **Figures** to the **right** indicate **full marks**.

- |    |       |   |   |
|----|-------|---|---|
| 1. | i)    | Give two examples of materials of reuse   | 1 |
|    | ii)   | Define abiotic components of an ecosystem   | 1 |
|    | iii)  | Define sustainable development  | 1 |
|    | iv)   | Enlist Primary air pollutants   | 1 |
|    | v)    | Define Ecology  | 1 |
|    | vi)   | State importance of Environmental studies   | 2 |
|    | vii)  | Give two examples of renewable and non-renewable energy sources   | 2 |
|    | viii) | Enlist merits and demerits of wind turbines   | 3 |
|    | ix)   | What is mitigation? Enlist the four steps of disaster management  | 3 |
| 2. | i)    | What are green buildings? Enlist the merits and demerits of green buildings.  | 4 |
|    | ii)   | Explain the use of technologies in disaster management.   | 4 |
|    | iii)  | Give the functions of Ministry of Environment and Forest (MoEF)   | 3 |
|    |       | <b>OR</b>   |   |
|    |       | What are the causes and treatment of E-Pollution  | 3 |
| 3. | i)    | Enumerate various methods for control of air pollution  | 4 |
|    |       | <b>OR</b>   |   |
|    |       | Enumerate on the approaches of secondary treatment of waste water   | 4 |
|    | ii)   | Write the functions and powers of Central Pollution Control Board   | 4 |
|    | iii)  | Define carbon credits. What are its advantages  | 3 |
| 4. | i)    | Classify municipal solid waste. Write a short note on vermicomposting as one of the method of solid waste management. | 4 |
|    | ii)   | What is wind energy and explain the working of wind turbine.  | 4 |
|    | iii)  | Discuss penalties and punishment under Environment Protection Act   | 3 |
|    |       | <b>OR</b>   |   |
|    |       | What are biogeochemical cycles? Explain carbon cycle  | 3 |

TURN OVER

5. i) What is geothermal energy. Enlist its forms and give its applications **4**
- OR**
- What is EIA? Explain the procedure for Environmental clearance **4**
- ii) Enlist the various indoor air pollutants and their effects on human health **4**
- iii) Describe the need of public awareness for environment **3**
6. i) Explain 'Ozone layer depletion' causes effects and preventive measures. **4**
- ii) Describe role of technology in environment and health **4**
- OR**
- iii) Describe ecological pyramids along with examples **4**
- iv) Explain global environmental crisis related with water. **3**