

[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) Justify the need for use of renewable sources of energy. **2**
  - ii) Explain the need of environmental education. **2**
  - iii) Give two benefits of Green buildings. **2**
  - iv) Explain secondary air pollutants with examples. **2**
  - v) What do you mean by vermicomposting? **2**
  - vi) Enlist two non-renewable sources of energy. **1**
  - vii) Define: Photochemical smog **1**
  - viii) Explain the term Environmental Impact Assessment(EIA) **1**
  - ix) Define examples of indoor air pollutants with its effect on human body. **1**
  - x) Define Carbon credit. **1**
  
2.
  - i) Write the causes and effects of depletion of soil resources and measures undertaken for prevention of same. **4**
  - ii) Give the roles and duties of Central Pollution Control Board. **4**

**OR**

Give the roles and duties of State Pollution Control Board.

  - iii) Why is depletion of ozone layer a major environmental hazard. **3**
  
3.
  - i) Describe the types of ecosystem and functional components of ecosystem alongwith examples. **4**
  - ii) What is wind energy and explain the working of hydropower generation **4**

**OR**

What is geothermal energy? What are its forms and enlist its applications.

  - iii) Describe the need of public awareness for environment **3**
  
4.
  - i) Write short note on causes and effects of acid rain **4**
  - ii) Give reason. Indoor air pollution is minimized by green buildings **2**
  - iii) Describe the control measures for sustainable development **2**
  - iv) Discuss the entire procedure for obtaining environmental clearance **3**

**OR**

Explain "Taj Mahal" as a case study in environmental legislation.

**TURN OVER**

5. i) Explain Minamata disease case study **4**
- OR**
- What are the causes and effects of noise pollution
- ii) Write a note on techniques of disaster management with reference to earthquake **4**
- iii) Explain the resource utilization as per the carrying capacity **3**
6. i) Describe the causes and effects of depleting nature of forests on the environment. **4**
- ii) With a neat labelled diagram explain principle and working of photovoltaic cell. **4**
- OR**
- With a neat labelled diagram explain principle and working of flat plate collector.
- iii) Classify municipal solid waste. Explain incineration as one of the methods of solid waste management. **3**
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