

**ENVIRONMENTAL SCIENCE**  
(Common to CE, ME, ECE and EIE)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) What are point and non-point sources of pollution?
  - (b) What is meant by 'Ecomark'? Give its symbol.
  - (c) When the groundwater withdrawal is more than its recharge rate, what effect will happen? What is the correct to use this whole process?
  - (d) Define biome. Give example.
  - (e) What do you mean by the term hotspots of biodiversity? Which hotspots found in India?
  - (f) How Noise pollution can be minimized in today's society?
  - (g) Write a note on Bhopal gas tragedy.
  - (h) What is JFM? Write its significance.
  - (i) Why it is not possible to rely on symptoms to know whether someone is infected with HIV?
  - (j) Define zero population growth and give any four parameters for analyzing population growth.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 What are the major causes for conflicts over water? Discuss with the help of a case study, on the effects of big dams on forests and the tribals.
- OR**
- 3 List out the renewable energy sources and explain any two, which could serve as solution for future energy needs.

**UNIT – II**

- 4 Mention any five values of Biodiversity, where you feel it is highly important to the ecosystem.
- OR**
- 5 Write a short a note on Ex-situ and In-situ conservation.

**UNIT – III**

- 6 Discuss briefly the effect of air pollution on human health and vegetation.
- OR**
- 7 Write a short note on Tsunami and Flood and explain with a recent case study of the both.

**UNIT – IV**

- 8 Discuss the traditional and modern rain water harvesting techniques.
- OR**
- 9 (a) Explain "The Water (Prevention and Control of Pollution) Act."  
(b) Describe the functions of Pollution Control Board in industrial regulations.

**UNIT – V**

- 10 Explain in detail about HIV/AIDS mode of its spread and its effects on environment and briefly discuss about the current status of HIV/AIDS.
- OR**
- 11 Enumerate the role of information technology in environment and human health.