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Roll No.....

Total No. of Questions—14]

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**KH2RO9**

**8367**

**ENVIRONMENTAL SCIENCE**

**PAPER—A**

Maximum Marks—60

Time Allowed—3 Hours

**(Long Answer Type Questions)**

1. Air pollution is major threat to the human health. Various tools and technologies are available to control air pollution. Discuss these devices which control air pollution.

*Or*

“As countries develop, their economy grows, so does the probability for a conflict with the environment.” Discuss. 5

2. Population is determined by factors like population size and density, natality, mortality, age structure and life tables. Explain each one.

*Or*

Describe five adverse consequences of rapid growth of population. 5

3. How are high human consumption of resources and the resulting wastes, destroying our ecosystems ?

*Or*

Discuss the Joint Forestry Management concept and its significance in India. 5

4. Define Ecosystem. Describe the complexity of the ecosystems.

*Or*

What do you mean by EIA ? What are the approaches and techniques of EIA ?  
Enlist various steps in the process. 5

P. T. O.

5. Write a detailed note on ecological approach to development.

*Or*

How do we identify probable environmental impacts ? Describe various methods used in identification of impacts.

**(Short Answer Type Questions)**

6. Discuss any three methods used for controlling gaseous pollutants.
7. Explain in brief, what do you understand by Corporate Social Responsibility.
8. What is Exponential Growth ? Discuss its characteristics.
9. What are the three important factors for population growth or decline ?
10. Discuss two types of stabilities with respect to an ecosystem.
11. Discuss two main proposed solutions to environmental problems.
12. Define Environmental Impact Assessment. What is its purpose ?

**(Very Short Answer Type Questions)**

13. The following very short answer type questions of two marks, each may be answered in a few sentences or as required.
  - (a) Summarise the remote sensing process.
  - (b) What are the four separate stages which characterise demographic transition ?
  - (c) What are the objectives behind population education ?
  - (d) What is Genetic Erosion ? What are the reasons for genetic erosion ?

**(Objective Type Questions)**

14. Choose the correct/most appropriate answer and write it in your Answer-book :

(i) Halons are similar to CFC's in structure but instead of chlorine atoms they have

- A. Iodine atoms
- B. Bromine atoms
- C. Astatine atoms
- D. Fluorine atoms.

(ii) Which air pollution control device has the maximum efficiency ?

- A. Electrostatic precipitator
- B. Wet scrubber
- C. Fabric filter
- D. Cyclone.

(iii) Expand GER

- A. General Energy Resource
- B. Gross Energy Resource
- C. Gross Environmental Resource
- D. General Environmental Resources.

(iv) What was the average time period required for population size to double before 1900 ?

- A. 2,000 years
- B. 200 years
- C. 20 years
- D. 50 years.

( 4 )

(v) What is the Demographic share of India in the world ?

- A. 14%
- B. 15%
- C. 16%
- D. 17%.

(vi) Out of the following which is the strategy for sustainable development ?

- A. Improves the quality of human life
- B. Maintain ecological systems
- C. Limit within the earth's carrying capacity
- D. All of the above.