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Roll No.....

Total No. of Questions—14]

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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.