



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/BCA/SEM-4/HU(BCA)401/2011**

**2011**

**ENVIRONMENT & ECOLOGY**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct answer from the given alternatives :

10 × 1 = 10

- i) What is the normal hearing frequency range ?
  - a) 60 Hz — 60 MHz
  - b) 20 Hz — 20 kHz
  - c) 20 Hz — 60 kHz
  - d) 60 Hz — 60 kHz.
- ii) Minamata disease is related to
  - a) land pollution
  - b) air pollution
  - c) water pollution
  - d) noise pollution.
- iii) BOD refers to
  - a) Biological Oxygen Demand
  - b) Biochemical Oxygen Demand
  - c) Bio Oxygen Dissolved
  - d) Biggest Oxygen Demand.
- iv) Medha Patekar is related to
  - a) Chipko Movement
  - b) Narmada Bachao Movement
  - c) Green Revolution
  - d) Operation Flood.



- v) EMA refers to
- a) Environmental Modification Account
  - b) Environmental Management Auditing
  - c) Executive Management & Accounting
  - d) Environmental Management & Accounting.
- vi) Bhopal Gas Tragedy occurred on
- a) December, 1984
  - b) November, 1985
  - c) January, 1986
  - d) December, 1983.
- vii) Who uses EIA ?
- a) Industry
  - b) Government
  - c) Institution
  - d) All of these.
- viii) Abbreviation of Environmental Informational System is
- a) EIS
  - b) ENVINFOSYS
  - c) ENVIS
  - d) None of these.
- ix) Carbohydrate produced in photosynthesis is
- a)  $C_3H_{12}O_5$
  - b)  $C_6H_{12}O_6$
  - c)  $C_6H_6O_6$
  - d)  $C_{12}O_6H_{12}$ .
- x) Kyoto Protocol is related to
- a) land degradation
  - b) water resource management
  - c) bio-diversity
  - d) none of these.



**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.

3 × 5 = 15

2. Define food chain. State how it is different from food web.
3. What do you mean by environmental degradation ? Mention the factors behind environmental degradation.
4. Differentiate between Oxidising and reducing smog.
5. Define biodiversity. Classify different types of biodiversity.
6. What is acid rain ? What are the adverse effects of acid rain ?

**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following. 3 × 15 = 45

7. What do you understand by the term 'air pollution' ? State the different types of air pollutants. Explain the adverse effect of air pollutants on human health. Describe some of the control measures of air pollution. 2 + 5 + 5 + 3
8. Define Ecosystem. What are the structural components of an Ecosystem ? Explain why sustainable ecosystem is important for welfare of mankind. 2 + 3 + 10
9. What is noise ? Explain the source of noise pollution. What are the physiological impacts of noise pollution ? How can noise be controlled at the source ? 2 + 3 + 5 + 5

CS/BCA/SEM-4/HU(BCA)401/2011



10. What do you mean by eutrophication ? Draw a schematic diagram of primary water treatment. What do you mean by secondary and tertiary treatment ? Describe 5-day BOD test.

3 + 5 + 3 + 4

11. Write short notes on any *three* of the following : 3 × 5

- i) Ecological Pyramids
- ii) Environment Protection Act, 1986
- iii) Ozone Layer Depletion
- iv) Chipko Movement
- v) Various methods of disposal of solid waste.

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