Name :	A
Roll No. :	The Parameter Of Soundary and Conference
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 :

 $10 \times 1 = 10$

- What is the normal hearing frequency range? i)
 - 60 Hz 60 MHz 20 Hz — 20 kHz a) b)
 - 20 Hz 60 kHz d) 60 Hz — 60 kHz. c)
- Minamata disease is related to ii) land pollution
 - air pollution b)
 - c) water pollution d) noise pollution.
- BOD refers to iii)

a)

- **Biological Oxygen Demand** a)
- **Biochemical Oxygen Demand** b)
- c) Bio Oxygen Dissolved
- Biggest Oxygen Demand. d)
- Medha Patekar is related to iv)
 - Chipko Movement a)
 - b) Narmada Bachao Movement
 - Green Revolution c)
 - Operation Flood. d)

4225

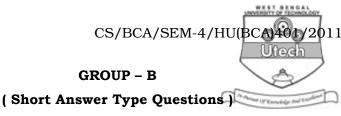
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- v) EMA refers to
 - a) Environmental Modification Account
 - b) Environmental Management Auditing
 - c) Executive Management & Accounting
 - d) Environmental Management & Accounting.
- vi) Bhopal Gas Tragedy occurred on
 - a) December, 1984 b) November, 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.
- 4225





Answer any three of the following.

 $3 \times 5 = 15$

- 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. $3 \times 15 = 45$

- 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
- 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

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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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