



Name :

Roll No. :

Invigilator's Signature :

CS/BCA/SEM-4/HU-401/2013

2013

ENVIRONMENT AND 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 answers for the following :

10 × 1 = 10

- i) Which one of the following acids is present in normal rain ?
 - a) Carbonic acid b) Sulphuric acid
 - c) Hydrocarbonic acid d) Nitric acid.
- ii) Trickling filter is used under
 - a) Primary treatment b) Secondary treatment
 - c) Tertiary treatment d) Advanced treatment.
- iii) Toxic metal when mixes with water causes
 - a) Environmental pollution
 - b) Noise pollution
 - c) Air pollution
 - d) Water pollution.



- iv) El-Nino is natural phenomenon that is observed on
- a) Indian Ocean
 - b) Bay of Bengal
 - c) Pacific Ocean
 - d) All of these.
- v) The atmospheric layer adjacent to earth's surface is
- a) Lithosphere
 - b) Troposphere
 - c) Stratosphere
 - d) Ozonosphere.
- vi) Oxygen-demanding wastes refer to
- a) Organic matter
 - b) Inorganic matter
 - c) Plastic
 - d) Metals.
- vii) BOD means
- a) Biological Oxygen Demand
 - b) Biochemical Oxygen Demand
 - c) Biggest Oxygen Demand
 - d) None of these.
- viii) Medha Patekar is involved in the
- a) Chipko Movement
 - b) Silent Valley Movement
 - c) Narmada Bachao Movement
 - d) None of these.
- ix) Minamata disease is related to
- a) Water pollution
 - b) Land pollution
 - c) Air pollution
 - d) None of these.
- x) According to the ecological food chain man is a/an
- a) decomposer
 - b) producer
 - c) consumer
 - d) none of these.



GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Define concept of ecological food chain. What are the different types of food chain ? $2 + 3$
3. Give an idea of environmental impact assessment.
4. Define Ecosystem. What are its components ? $2 + 3$
5. What are the various methods of disposal of solid wastes ?
6. Define Bio-diversity. Classify different types of bio-diversity. $2 + 3$

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. What are the different sources of water pollution ? How do they cause water pollution ? What is ground water pollution ? $3 + 8 + 4$
8. What are the various causes and effects of Global Warming ? What can we do to combat Global Warming ? $10 + 5$
9. How would you classify noise under different categories ? What are the permissible levels of noise in residential areas, business areas, and sensitive areas ? Suggest some measures of noise pollution control. $6 + 3 + 6$

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10. What is active sludge ? Describe the activated sludge treatment process of sewage with a neat flow diagram. 3 + 12

11. Write short notes on any *three* of the following : 3 × 5 = 15

- a) Ozone layer depletion
- b) Trickling filter
- c) Biomagnification
- d) Adverse effect of heavy metals in natural and waste water.
- e) Biodiversity.

