



Name : .....  
Roll No. : .....  
Invigilator's Signature : .....

**CS/B-OPTM/SEM-2/BO-204/2011**

**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 alternatives for any *ten* of the following :

10 × 1 = 10

- i) The Ganga pollution is due to dumping of
  - a) domestic & industrial sewage
  - b) food waste
  - c) waste from forest
  - d) hospital waste.
- ii) Which of the following acids is present in normal rain ?
  - a) Carbonic acid                      b) Sulphuric acid
  - c) Hydrocarbonic acid              d) Nitric acid.
- iii) Tinnitus is a disease caused by
  - a) Land pollution                      b) Air pollution
  - c) Thermal pollution                  d) Noise pollution.

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[ Turn over





- ix) The logical sequence of food chain is
- a) decomposer – photosynthesis – consumer
  - b) photosynthesis – decomposer – consumer
  - c) consumer – photosynthesis – decomposer
  - d) photosynthesis – consumer – decomposer.
- x) The trade name of CFC is
- a) Freon
  - b) Chloro-fluro - carbon
  - c) Chloro-fluro chlorine
  - d) Carbo - fluro chlorine.
- xi) Photochemical smog was first observed in
- a) London
  - b) Canada
  - c) Los-Angeles
  - d) Japan.
- xii) Normal hearing frequency of noise is
- a) 2 – 20,000 Hz
  - b) 20 – 20,000 Hz
  - c) 2 – 20 Hz
  - d) 2,000 Hz.

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.

3 × 5 = 15

2. Write down the causes of environmental degradation.
3. Write the mechanism of formation of photochemical smog.
4. State the type of temperature changes are observed at different segments of atmosphere.
5. Define environment. Mention the component of environment.
6. What is EIA ? State the steps of EIA.



**GROUP – C**

**( Long Answer Type Questions )**

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

7. Define water pollution. Mention the sources of water pollution. Discuss sewage treatment process with diagram.  
 $3 + 5 + 7$
8. "Greenhouse effect is also termed as carbon dioxide enrichment." – Why ? What are the causes of greenhouse effect ? Explain the effects of this phenomenon and how to control it ?  
 $3 + 6 + 6$
9. What is soil erosion ? Describe the different types of weathering process. Explain waste disposal strategies.  
 $3 + 6 + 6$
10. What is sound pollution ? State the sources of sound pollution. Describe the effects of sound pollution in human life.  
 $3 + 5 + 7$
11. Write notes on any *three* of the following :  $3 \times 5$ 
  - a) Biodiversity
  - b) Environmental (Protection) Act, 1986
  - c) Montreal Protocol and Kyoto Protocol
  - d) Ecosystem of pond
  - e) Arsenic pollution
  - f) Role of NGO.