



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.





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

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.

3 × 5 = 15

- Write down the causes of environmental degradation.
- Write the mechanism of formation of photochemical smog.
- State the type of temperature changes are observed at different segments of atmosphere.
- Define environment. Mention the component of environment.
- 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.
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