



Name :

Roll No. :

Invigilator's Signature :

**CS/HM/SEM-4/BHM-403/2011
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 the following : $10 \times 1 = 10$
 - i) Green peace is
 - a) a protocol
 - b) non-governmental organization
 - c) governmental organization
 - d) a treaty.
 - ii) Ground level ozone is found in
 - a) troposphere
 - b) stratosphere
 - c) ionosphere
 - d) exosphere.
 - iii) EIA is
 - a) Environmental Impact Assessment
 - b) Environment of Indoor Air
 - c) Essential Impact Assessment
 - d) none of these.



- iv) PAN is
- a) Peroxyacyl nitrate b) Peroxyacetyl nitrate
c) Peroxyacyl nitrite d) none of these.
- v) Formaldehyde is
- a) a primary pollutant b) a secondary pollutant
c) a criteria pollutant d) a complex pollutant.
- vi) Which one of the following is the source of arsenic ?
- a) Automobile
b) Mining industry
c) Electrical storage battery industry
d) Paper industry.
- vii) BOD is
- a) Biological Oxygen Demand
b) Better Oxygen Demand
c) Biological Optimum Demand
d) Biogenetic Oxygen Demand
- viii) "Trickling filters" are devices of
- a) primary treatment of waste water
b) secondary treatment of waste water
c) tertiary treatment of waste water
d) none of these.



- ix) Cow dung is an example of
- municipal solid waste
 - domestic solid waste
 - dairy industry solid waste
 - anthropogenic solid waste.
- x) Nitrogen present in clean air is
- | | |
|-----------|----------|
| a) 20.94% | b) 2.94% |
| c) 78.08% | d) 7.80% |

GROUP – B

(Short Answer Type Questions)

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

- How do you explain Los Angeles smog ?
- Distinguish between primary and secondary air pollution.
- State the role of Green Peace in environmental protection.
- How does the dispersion of smoke occur in atmosphere ?
- Define food chain. Discuss grazing food chain with examples.

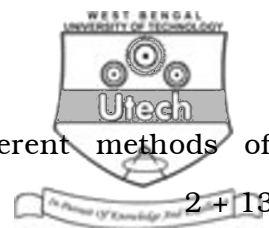
GROUP – C

(Long Answer Type Questions)

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

- Define pollutant. Explain major air pollutant in the hospital context. How does the study of the subject environment and ecology help the hospital administrators in efficiently managing a hospital ? $2 + 7 + 6$

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8. Define biomedical waste. Describe different methods of management of biomedical wastes. 2 + 13
9. How would you classify noise under different categories ? What are the permissible levels of noise in residential, business and sensitive areas ? How can noise pollution be controlled ? 6 + 3 + 6
10. Explain the role of Freon in stratospheric ozone depletion. What are the commercial uses of Freon ? Mention the preventive measures to be taken to combat global warming. 3 + 4 + 8
11. Write notes on any *three* of the following : 3 × 5
- a) Temperature inversion
 - b) Causes and effect of global warming
 - c) Role of NGOs in environmental protection
 - d) Sustainable development
 - e) Legislation versus social obligations for health care
 - f) Ecological pyramids.
