



Name :
Roll No. :
Invigilator's Signature :

CS/HM/SEM-4/BHM-403/2013

2013

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) Non-living components of ecosystem are called
 - a) abiotic factors
 - b) biotic factors
 - c) producers
 - d) consumers.
- ii) Which one of the following is waterborne disease ?
 - a) Typhoid
 - b) Mumps
 - c) AIDS
 - d) Cataract.
- iii) Stone cancer of Taj is caused by
 - a) smog
 - b) acid rain
 - c) UV rays
 - d) CFC.
- iv) Bhopal gas tragedy released the gas
 - a) methane
 - b) ozone
 - c) nitrous oxide
 - d) methyl isocyanate.



- xii) BOD is
- Biological Oxygen Demand
 - Better Oxygen Demand
 - Biological Optimum Demand
 - Biogenetic Oxygen Demand.

GROUP - B

(Short Answer Type Questions)

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

- Distinguish between primary and secondary air pollutions.
- Define food chain. Discuss grazing food chain with examples.
- Explain the basic elements of ecology.
- What do you mean by hazardous waste ? Mention the special care to be taken for their handling and disposal. $2 + 3$
- Explain the relevance of the subject Environment & Ecology on Hospital Management.

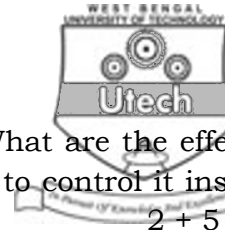
GROUP - C

(Long Answer Type Questions)

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

- Define the objectives of EIA. Mention the steps involved in the EIA process. Highlight eight guiding principles of EIA.
 $3 + 4 + 8$
- What is a pollutant ? Give two examples each of a primary and secondary air pollutants. Explain major air pollutant in the hospital context. State their effects and methods of control.
 $1 + 4 + 4 + 6$
- Explain the main subdivisions of biosphere. Which features of the planet earth make life possible here ? How does the study of the subject Environment and Ecology help the hospital administrators in efficiently managing a hospital ?
 $6 + 3 + 6$

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10. Describe the sources of noise pollution. What are the effects of it on environment ? What are the ways to control it inside and around a hospital ? 2 + 5 + 8
11. Define biomedical waste. Describe different methods of management of biomedical waste. Explain autoclaving & incineration. 2 + 7 + 6
12. What is biodiversity ? Describe the different ways to conserve biodiversity. Explain the concept of 'Ecological balance' and consequence of changes. 2 + 6 + 7
13. Write short notes on any *three* of the following : 3 × 5
- a) Environmental Protection Act, 1986
 - b) Role of plastic on land pollution
 - c) Forest ecosystem
 - d) Global warming
 - e) Ozone depletion.

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