



Name :

Roll No. :

Invigilator's Signature :

CS/BTTM/SEM-4/TTM-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.

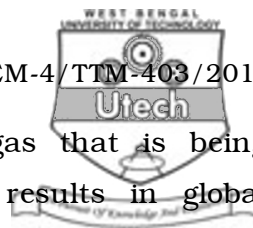
GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) Biosphere is made up of
 - a) atmosphere and lithosphere
 - b) hydrosphere and atmosphere
 - c) lithosphere and hydrosphere
 - d) lithosphere, hydrosphere and atmosphere.
 - ii) Environmental degradation is due to
 - a) rapid industrialization
 - b) onset of different developmental works
 - c) fast urbanization leading to deforestation
 - d) all of these.
 - iii) The main causes of deforestation are
 - a) overgrazing and agriculture
 - b) industry and other developmental projects
 - c) timber extraction
 - d) all of these.



- iv) The single largest river development scheme in India is
- a) The Narmada Valley Development Project
 - b) The Damodar Valley Development Project
 - c) The Ganga Valley Development Project
 - d) The Tapti Valley Development Project
- v) All sources of water such as oceans, lakes, rivers and underground water together constitute
- a) hydrosphere
 - b) atmosphere
 - c) lithosphere
 - d) biosphere.
- vi) SARS stands for
- a) Severe Acute Respiratory Syndrome
 - b) Sudden and Acute Respiratory Syndrome
 - c) Severe and Acquired Respiration State
 - d) none of these.
- vii) Which of the following is not a world heritage site of India ?
- a) Sundarban National Park
 - b) Manas Wildlife Sanctuary
 - c) Simlipal
 - d) Kaziranga National Park.
- viii) The main discharge from a thermal power plant is
- a) smog
 - b) dust particles
 - c) fly ash
 - d) smoke.



- ix) The most important Greenhouse gas that is being affected by human activities and results in global warming is
- a) carbon dioxide b) water vapour
- c) methane d) nitrous oxide.
- x) The two acidic oxides mainly responsible for acid rain are
- a) sulphur dioxide and nitrous oxide
- b) sulphur dioxide and sulphur trioxide
- c) sulphur trioxide and nitrogen dioxide
- d) sulphur dioxide and nitrogen dioxide.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. 3 × 5 = 15

2. State the main causes of degradation of a city's environment.
3. How do you define “Montreal protocol” ?
4. Highlight the role of Green Peace in Environmental protection.
5. Define the concept of Acid rain. State the steps taken to prevent acid rain.
6. What is lithosphere ? Give example.



GROUP – C

(Long Answer Type Questions)

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

7. Define global warming. How is it interrelated with greenhouse effect ? Discuss about the various effects of global warming and also mention the controlling method of it. $2 + 3 + 5 + 5$
8. What do you mean by water pollutant ? State the biochemical characteristics of waste water. Briefly discuss waste water treatment. $2 + 4 + 9$
9. Briefly discuss the elements of ecology. What is EIA report ? Explain its importance for start up a manufacturing enterprise. $5 + 5 + 5$
10. What are the different layers of ecosphere ? What are the original effects of different types of land pollutants ? Discuss about financial implication in a business enterprise in relation to collection and disposal of solid waste with recovery and conservation methods. $3 + 7 + 5$
11. Write notes on any *three* of the following : 3×5
- a) Climate and weather
 - b) Lake water pollution
 - c) Municipal solid wastes
 - d) Environmental Protection Act, 1986.