



Name :

Roll No. :

Invigilator's Signature :

CS/BTTM/SEM-4/TTM-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 :

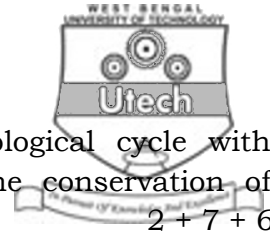
10 × 1 = 10

- i) The total fresh water reserve of the earth is about
 - a) 2.2%
 - b) 0.5%
 - c) 2.7%
 - d) 0.0001%.
- ii) Most poisonous pollutant in water is
 - a) zinc
 - b) phosphate
 - c) arsenic
 - d) carbon dioxide.
- iii) Which of the following is the correct sequence of the food chain ?
 - a) Grass → insect → bird → snake
 - b) Grass → snake → insect → deer
 - c) Bacteria → grass → deer → buffalo
 - d) Grass → wolf → deer → buffalo.



- iv) Snowfall is measured in
 - a) relative units
 - b) inches or centimetres falling per unit of time
 - c) the number of grams of water molecules per kilogram
 - d) none of these.
- v) The animal communities living in a desert are called
 - a) biome
 - b) biotic factor
 - c) biomass
 - d) food web.
- vi) Which of the following agencies has laid down the standards for the control of pollution of air, water and noise ?
 - a) Central Pollution Control Board
 - b) Central Pollution Control Tribunal
 - c) Central Pollution Control Agency
 - d) None of these.
- vii) Global warming will lead to which of the following situations ?
 - a) Massive extinction of the species
 - b) Increase of the greenhouse gas emission
 - c) Collapse of biological and ecological system
 - d) All of these.
- viii) The lowest temperature in the atmosphere is
 - a) -90°C
 - b) -100°C
 - c) -50°C
 - d) none of these.
- ix) Sanctuaries are established to
 - a) conduct research on biodiversity
 - b) conduct ecotourism on wildlife
 - c) develop commercial tree plantation
 - d) protect animal.

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9. What is Hydrosphere ? Describe Hydrological cycle with diagram. Suggest some measures for the conservation of water. 2 + 7 + 6
10. What are the source of wastes being generated in the cities ? Explain solid waste management. What are the causes of solid waste pollution ? 2 + 10 + 3
11. a) What is Ozone depletion ?
b) Discuss the role of CFCs on Ozone hole formation and photochemistry of Ozone in the stratosphere.
c) What are the harmful effects of depleted Ozone layer ?
d) Indicate various areas where CFCs have been used.
e) Name the substitutes of CFCs. 2 + 5 + 4 + 2 + 2
12. Write short notes on any *three* of the following : 3 × 5
- a) Activated sludge process
b) Bag house
c) Catalytic converter
d) Water Pollution Control Act, 1974.

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