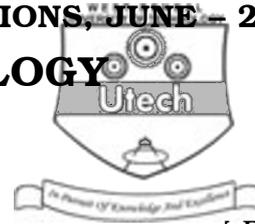




ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009
ENVIRONMENT & ECOLOGY
SEMESTER - 4



Time : 3 Hours]

[Full Marks : 70

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : 10 × 1 = 10
- i) Which of the following is not an environmental problem ?
 - a) Wastage of water
 - b) Conservation of water
 - c) Deforestation
 - d) Land erosion.

 - ii) Which of the following is not a symptom of ozone pollution on human health ?
 - a) Sore throat
 - b) Lung cancer
 - c) Amnesia
 - d) Asthmatic attack.

 - iii) Why is the 21st century a 'Climate Century' ?
 - a) Global Warming
 - b) Increasing Magnitude and Frequency of Super-storms
 - c) The Global Political Agenda
 - d) Increasing Climate Induced Disasters.

 - iv) World Environment Day is celebrated every year on
 - a) 5th March
 - b) 15th April
 - c) 15th May
 - d) 5th June.

 - v) are used in electrostatic precipitators.
 - a) Catalysts
 - b) Absorbers
 - c) Electrodes
 - d) Chemicals.



vi) Which of the following is not a measure of indoor air quality ?

- a) Dust pollution
- b) Smoke pollution
- c) Carbon monoxide pollution
- d) Heat.



vii) Which of the following is not an indicator of global warming ?

- a) Sea level rise
- b) Glacial retreat
- c) Slope failures
- d) Increase in greenhouse gases (Ghgs).

viii) Biological oxygen demand of is the least.

- a) Sewage
- b) Sea water
- c) Pure water
- d) Polluted water.

ix) 'Arsenicosis' is associated with

- a) water pollution
- b) land pollution
- c) solid waste disposal
- d) noise pollution.

x) Ozone pollution has serious impact on all of the following, *except*

- a) vegetation
- b) water quality
- c) buildings
- d) atmospheric visibility.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following questions.

3 × 5 = 15

2. How is acid rain formed ? Give example.
3. How do you define Montreal Protocol ?
4. What are the consequences of change in the ecological balance ?



5. How do you classify solid wastes ? Give example.
6. State the main components of Ecosystem.

**GROUP – C****(Long Answer Type Questions)**

Answer any *three* of the following questions.

3 × 15 = 45

7. Do you think tourism is responsible for environment degradation ? As a tourism manager how do you think you can help in sustainable development of a tourist destination ? Write down your answer in view of ecotourism concept. 15
8. State the aims of conservation of bio-diversity. Write down the steps and methods for conservation of bio-diversity. Highlight the concepts of sanctuary, national park and biosphere reserves. Give at least one example of each. 2 + 4 + (3 × 2) + (3 × 1)
9. Mention the sources of water pollution. Hence define the term 'eutrophication' ? Write down the effects of water pollution. Do you think that *Ganga Action Plan* was successful to eradicate water pollution in our country ? 3 + 3 + 3 + 6
10. "The Environment Protection Act, 1986 has given powers to Central Government to take measures to protect and improve the environment." Describe the act briefly to elaborate the statement. 15
11. Describe elaborately about the *Greenhouse Effect* and its impact over global climate change. 5 + 10

END