



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Pharm(NEW)/SEM-2/HU-202/2011**

**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 × 1 = 10

i) Water with rich nutrient status is called

- a) Eutrophic                      b) Masotrophic  
c) Oligotrophic                d) None of these.

ii) Effect of Arsenic in human body is

- a) Mental retardation  
b) Numbness of limbs, tongue and lips  
c) Gastric and intestinal disorder  
d) Central necrosis and cirrhosis.

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[ Turn over



- iii) Bhopal disaster is associated with
- a) L.P.G.                                      b) Radioactive fuel
- c) Methyl isocyanate                      d) Ozone gas.
- iv) Greenhouse gases are
- a) Carbon monoxide and Sulphur dioxide
- b)  $\text{CO}_2$ , Methane, Chlorofluorocarbon
- c) Chloroform, ether
- d) None of these.
- v) London smog formed from
- a) Oxides of Sulphur                      b) Oxides of Nitrogen
- c) Both of these                              d) None of these.
- vi) Ecological pyramid is always inverted in case of
- a) Predator food chain
- b) Parasitic food chain
- c) Saprophytic food chain
- d) Both (a) and (c).
- vii) A gas which is curse as well as blessing to human being is
- a) Oxygen                                      b) Ozone
- c) Nitrogen                                     d) Hydrogen.



viii) Which of the following spheres is ideal for flying jet aircrafts ?

- a) Troposphere
- b) Stratosphere
- c) Mesosphere
- d) Thermosphere.

ix) Which of the following is the renewable source of energy ?

- a) Thermal
- b) Hydroelectric
- c) Nuclear
- d) Solar.

x) Noise is painful when its level is

- a) 65 dB
- b) 80 dB
- c) 110 dB
- d) 135 dB.

**GROUP – B**

**( Short Answer Type Questions )**

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

2. Define greenhouse effect. How do the greenhouse gases function in the atmosphere ?
3. State the important compositions of atmosphere.
4. Differentiate between persistent and non-persistent pollutants.
5. What do you mean by "Ozone Hole" ? Write down the causes and effect of it.
6. Enumerate the concept of "Food Chain" with example.



**GROUP – C**

**( Long Answer Type Questions )**

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

7. a) State the different sources of noise pollution.  
b) Write an account on the measures to be taken to control noise pollution.  
c) Explain about the noise pollution hazards on human health.  $5 + 5 + 5$
8. a) Illustrate the roles of oxygen demanding wastes, pesticides and radioactive materials in water pollution.  
b) Explain about the role of different heavy metals on human health.  $7 + 8$
9. a) What are the ground water pollutants and their sources ?  
b) Write an account for the preventive measure for controlling water pollution.  
c) Write an account on the measures to be taken to control Global Warming.  $5 + 5 + 5$
10. a) State different types of solid wastes.  
b) How can it be disposed off ?  
c) What is the effect of solid wastes on human beings ?  
d) Mention the methods of controlling biomedical waste.  $3 + 6 + 2 + 4$
11. Write notes on any *two* of the following :  $2 \times 7 \frac{1}{2}$
- a) Threshold Limit Value ( TLV )  
b) PAN  
c) Acid rain  
d) Ecosystem.