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# CS/B.PHARM (O&N)/SEM-2/HU-202/2010 2010

## **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

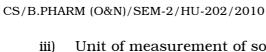
## ( Multiple Choice Type Questions )

1. Choose the correct alternatives for any *ten* of the following :

 $10 \times 1 = 10$ 

- i) Minamata disease is caused by
  - a) Lead poising
  - b) Arsenic poisoning
  - c) Cadmium poisoning
  - d) none of these.
- ii) DDT inhibits the enzyme
  - a) pepsin b) acetyl cholinesterase
  - c) none of these d) both of these.

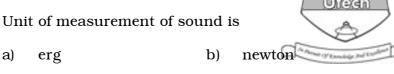
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dB

a)

c)



d)

 $\mu$ .

Identify the secondary pollutant of the following: iv)

NO  $CO_2$ a) b) O<sub>3</sub> in troposphere Hydrocarbon. d) c)

Photochemical smog is produced in busy cities like v) Los Angeles. The primary pollutants produce photochemical smog are

- a) Hydrocarbons and NO
- b) Hydrocarbons and CO 2
- Chlorofluorocarbon and NO c)
- d) Chlorofluorocarbon and CO  $_2$  .

Acid rain has a pH of vi)

- less than 7 3 - 6b) a)
- c) 7 d) above 7.

vii) Montreal Protocol was signed by 46 industrial nations for

- Climate change a)
- Greenhouse gas phasing b)
- Ozone depletion c)
- d) Biodiversity act.

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- viii) Antidote of mercury poisoning is
  - a) Dimercaprol
- b) Dimercarbon
- c) Halogen
- d) Halocarbon.
- ix) Biotic component of ecosystem includes
  - a) Producers
- b) Consumers
- c) Decomposers
- d) all of these.
- x) Noise pollution causes
  - a) deafness
- b) increase in B.P.
- c) heart trouble
- d) all of these.
- xi) All the living organisms on earth constitute
  - a) Community
- b) Biosphere
- c) Species
- d) Biome.

#### **GROUP - B**

## (Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$ 

- 2. Define Global Warming. What are the causes of it?
- 3. Write down the effects of Acid Rain.
- 4. Discuss special cares to be taken in disposing biomedical wastes.
- 5. Distinguish between Food web and Food chain.
- 6. State the various steps involved in 5-day BOD test.

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## (Long Answer Type Questions)

Answer any three of the following.



- 7. a) Define air pollution. Mention the adverse effects of air pollution.
  - b) Write down the composition of atmosphere.
  - c) Discuss the major regions of atmosphere.

$$2 + 7 + 3 + 3$$

8. State the main composition of untreated domestic water. How is sewage treatment done? Describe with sketches.

$$2 + 8 + 5$$

- 9. What are the different water pollutants? Explain how each of them can have dangerous effect on the environment. How can water pollution be prevented? 2 + 8 + 5
- 10. a) How do you define ecosystem?
  - b) Describe about one gaseous cycle with labelled diagram.
  - c) What is biomagnification?
  - d) Describe pond ecosystem.

$$2 + 6 + 2 + 5$$

- 11. a) State different sources of noise pollution.
  - b) Mention the measures to be taken to control noise pollution.
  - c) What are the effects of noise on human health?

$$5 + 5 + 5$$

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