CS/B.Pharm/SEM-2/HU-202/2013

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 the following : $10 \times 1 = 10$
- i) Which one of the following is not normally a pollutant?
 - a) Carbon monoxide
- b) Carbon dioxide
- c) Hydrocarbons
- d) Sulphur dioxide.
- ii) Contamination of water with sewage is indicated by cysts of
 - a) Escherichia
- b) Escherichia coli
- c) Pseudomonas
- d) Leishmania.
- iii) Ultraviolet radiation from sunlight causes the reaction that produces
 - a) fluorides
- b) ozone
- c) carbon monoxide
- d) sulphur dioxide.

- iv) DDT is a
 - a) greenhouse gas
 - b) degradable pollutant
 - c) non-degradable pollutant
 - d) none of these.
- v) Decomposition of domestic wastes under natural processes is called

a) thermal pollution
b) industrial pollution
c) biodegradable pollution
d) non-biodegradable pollution.
vi) Eutrophication causes decreases in
a) dissolved oxygen b) dissolved hydrogen
c) dissolved salts d) all of these.
vii) Fluoride pollution mainly affects
a) brain b) teeth
c) heart d) kidney.
viii) Gas leaked during Bhopal tragedy was
a) Ethyl isothiocyanate
b) Sodium isothiocyanate
c) Potassium isothiocyanate
d) Methyl isocyanate.
ix) Global agreement in specific control strategies to reduce
the release of ozone depleting substances, was adopted
by
a) The Vienna Convention
b) Rio de Janeiro Conference
c) The Montreal Protocol
d) The Kyoto Protocol.
x) Increase in the concentration of pollutants in higher
trophic levels is known as
a) biomagnification b) biodegradation
c) eutrophication d) recycling.
GROUP – B
(Short Answer Type Questions)

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

- 2. Describe the effects of plastic bags on environment.
- 3. Explain the principles of environmental impact assessment.
- 4. Write down the causes of global warming & its effects.
- 5. Differentiate between persistent & non-persistent pollutants.
- 6. State the various steps involved in 5-day BOD test.

GROUP - C

(Long Answer Type Questions)

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

- 7. a) Explain the term "Ozone Hole".
- b) Which pollutant is responsible for ozone-layer depletion
- & how ?
- c) What is Montreal protocol?

5 + 5 + 5

- 8. a) What do you mean by the term "Environment"?
- b) What are the components of environment?
- c) Describe nitrogen cycle.
- d) Explain pond eco-system.

2 + 3 + 5 + 5

- 9. a) Define waste water.
- b) How could you treat waste water (waste water

treatment)?

c) Give a neat diagram.

2 + 11 + 2

- 10. a) How do you define air pollution?
- b) Write about different types of air pollutants with examples.
- c) Mention the adverse effects of air pollution.

3 + 8 + 4

- 11. a) Discuss different sources of water pollution.
- b) What do you mean by Eutrophication ? How is it caused ?

c) What types of precautions to be taken to prevent noise pollution in an industry to safeguard the workers?

5 + 5 + 5

- 12. Write short notes on any three of the following : 3×5
- a) Biomagnifications and ecological pyramid
- b) Acid rain
- c) Cyclone separator
- d) Noise pollution
- e) Wildlife Conservation Act, 1972.
