

CS/BCA/SEM-4/HU-401/2013

2013

**ENVIRONMENT AND 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 answers for the following :

10 × 1 = 10

i) Which one of the following acids is present in normal

rain ?

a) Carbonic acid                      b) Sulphuric acid

c) Hydrocarbonic acid              d) Nitric acid.

ii) Trickling filter is used under

a) Primary treatment              b) Secondary treatment

c) Tertiary treatment              d) Advanced treatment.

iii) Toxic metal when mixes with water causes

- a) Environmental pollution
- b) Noise pollution
- c) Air pollution
- d) Water pollution.

iv) El-Nino is natural phenomenon that is observed on

- a) Indian Ocean      b) Bay of Bengal
- c) Pacific Ocean      d) All of these.

v) The atmospheric layer adjacent to earth's surface is

- a) Lithosphere      b) Troposphere
- c) Stratosphere      d) Ozonosphere.

vi) Oxygen-demanding wastes refer to

- a) Organic matter      b) Inorganic matter
- c) Plastic      d) Metals.

vii) BOD means

- a) Biological Oxygen Demand
- b) Biochemical Oxygen Demand
- c) Biggest Oxygen Demand
- d) None of these.

viii) Medha Patekar is involved in the

- a) Chipko Movement
- b) Silent Valley Movement
- c) Narmada Bachao Movement
- d) None of these.

ix) Minamata disease is related to

- a) Water pollution    b) Land pollution
- c) Air pollution        d) None of these.

x) According to the ecological food chain man is a/an

- a) decomposer    b) producer
- c) consumer        d) none of these.

### **GROUP – B**

#### **( Short Answer Type Questions )**

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

2. Define concept of ecological food chain. What are the

different types of food chain ? 2 + 3

3. Give an idea of environmental impact assessment.

4. Define Ecosystem. What are its components ? 2 + 3

5. What are the various methods of disposal of solid wastes ?

6. Define Bio-diversity. Classify different types of bio-diversity.

2 + 3

**GROUP – C**

**( Long Answer Type Questions )**

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

7. What are the different sources of water pollution ? How do

they cause water pollution ? What is ground water

pollution ?

3 + 8 + 4

8. What are the various causes and effects of Global Warming ?

What can we do to combat Global Warming ?

10 + 5

9. How would you classify noise under different categories ?

What are the permissible levels of noise in residential areas,

business areas, and sensitive areas ? Suggest some

measures of noise pollution control.

6 + 3 + 6

10. What is active sludge ? Describe the activated sludge

treatment process of sewage with a neat flow diagram. 3 + 12

11. Write short notes on any *three* of the following :  $3 \times 5 = 15$

a) Ozone layer depletion

b) Trickling filter

c) Biomagnification

d) Adverse effect of heavy metals in natural and waste

water.

e) Biodiversity.