



**BRAINWARE UNIVERSITY**

**Term End Examination 2018 - 19**

**Programme – Dip. CSE/ Dip. ECE/ Dip. EE**

**Course name - Environmental Science**

**Course Code –DCSE205/ DECE205/ DEE205**

(Semester – 2)

**Time allotted: 3 Hours**

**Full Marks: 75**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

**Group –A**

(Multiple Choice Type Questions)

10 x 1 = 10

1. *Choose the correct alternative from the following*
  - (i) Montreal Protocol is related to
    - a. Land pollution
    - b. Noise pollution
    - c. Production and use of CFCs
    - d. Increase of population
  - (ii) Which one is not a natural source of noise pollution?
    - a. Cyclone
    - b. Thunder
    - c. Loudspeaker
    - d. Volcanic eruption
  - (iii) Minamata disease occurs due to
    - a. Arsenic pollution
    - b. Lead pollution
    - c. Mercury pollution
    - d. Cadmium pollution
  - (iv) Incineration is a disposal method of
    - a. Water pollutant
    - b. Air pollutant
    - c. Solid waste
    - d. None of these
  - (v) Water is called polluted when DO level drops below
    - a. 5 ppm
    - b. 8 ppm
    - c. 10 ppm
    - d. 15 ppm
  - (vi) The biotic factor of ecosystem is
    - a. Sunlight
    - b. Soil
    - c. Wind
    - d. Tree

- (vii) Audio range of human is
- |                |                |
|----------------|----------------|
| a. 20-20000 Hz | b. 10-10000 Hz |
| c. 5-20 Hz     | d. 20-25000 Hz |
- (viii) The abnormal growth and activities of a cell may cause
- |            |            |
|------------|------------|
| a. Cancer  | b. Typhoid |
| c. Cholera | d. Malaria |
- (ix) Lithosphere means
- |          |                    |
|----------|--------------------|
| a. Air   | b. Organisms       |
| c. Water | d. Rocks and soils |
- (x) The main source of water in India for agricultural purposes is
- |                  |                 |
|------------------|-----------------|
| a. Rain water    | b. Ground water |
| c. Surface water | d. Sea water    |

### Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

- |   |     |
|---|-----|
| 2. What is health? Write some characteristics of a healthy person.  | 5   |
| 3. What do you mean by air pollution? Write the name of different air pollutants according to the source. | 2+3 |
| 4. What is ecosystem? Classify the components of ecosystem.   | 2+3 |
| 5. What is global warming? Write the names of three gases responsible for global warming.                 | 2+3 |
| 6. Write the poisoning effects of mercury and arsenic present in water.                                   | 5   |

### Group – C

(Long Answer Type Questions)

5 x 10 = 50

Answer any *five* from the following

- |   |       |
|---|-------|
| 7. Define resource. What are renewable and non-renewable resources? Give at least two examples of each. | 2+4+4 |
| 8. What is acid rain? Name some gases that cause acid rain. What are the effects of acid rain?          | 2+3+5 |
| 9. What are ecological pyramids? Classify the ecological pyramids and discuss in brief.                 | 3+7   |

10. What are the main objectives of conservation of biodiversity? Explain in-situ and ex-situ conservation of biodiversity. 4+3+3
11. a) Define water pollution. 2
- b) Define "Dissolved Oxygen" in water. What is the saturated value of "DO" in natural water? What is the minimum "DO" value required for healthy aquatic life? 2+1+1
- c) Write a note on "Eutrophication" of water body. 4
12. What is solid waste? Classify solid waste. 4+6
13. Write a note on sustainable development. 10
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