BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme – B. Tech. (CSE)/ B. Tech. (ECE)

Course name - Environmental Science

Course Code – MC-2

(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. Gaseous pollutants

(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 eco-system 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 do you mean by air pollution? Write the name of different air pollutants according to the source.   2+3

3.   What is global warming? Write the names of three gases responsible for global warming.   2+3

4.   Write the poisoning effects of mercury and arsenic.   5

5.   What is health? Write some characteristics of a healthy person.   5

6.   What is ecosystem? Classify the components of ecosystem.   2+3

Group – C

(Long Answer Type Questions)   5 x 10 = 50

Answer any *five* from the following

7.   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

8.   Define resource. What are renewable and non-renewable resources? Give at least two examples of each.   2+8

9. What are ecological pyramids? Classify the ecological pyramids and discuss them in brief. 3+7

10. Write a note on Environment (Protection) Act, 1986. 10

11. What is acid rain? Name some gases that cause acid rain. What are the effects of acid rain? 2+3+5

12. What is population growth? Briefly describe different types of population growth curves. 2+8

13. What is solid waste? Classify solid waste with illustration. 4+6