



BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme – Bachelor of Science (Honours) in Biotechnology

Course Name – Environmental Science and Disaster Management

Course Code – BBT201

(Semester –II)

Time allotted: 3 Hours

Full Marks: 70

[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 Question)

10 x 1 = 10

1. *Choose the correct alternative from the following*
 - (i) Which of the following is not an air pollutant?

a. Smoke	b. Carbon Dioxide
c. Nitrogen Gas	d. Sulphur Dioxide
 - (ii) Which of the following is a disadvantage of most of the renewable energy sources?

a. Highly polluting	b. High waste disposal cost
c. Unreliable supply	d. High running cost
 - (iii) Ozone layer is found in

a. Thermosphere	b. Stratosphere
c. Troposphere	d. Mesosphere
 - (iv) Which of the following is not the effect of modern agriculture?

a. Nitrate pollution	b. Eutrophication
c. Bio magnification	d. Ozone depletion
 - (v) The idea of sustainable development was conceived in early:

a. 1950	b. 1960
c. 1970	d. 1980
 - (vi) Which of these problems can be caused by floods?

a. Landslips	b. Sewage contamination
c. Destroyed crops	d. All of the above

- (vii) Instrument used to measure earthquake is known as
- Quake meter
 - Quake graph
 - Seismograph
 - Typanicgraph
- (viii) Identify the correct statement with respect to Biogas
- Mixture of gases from volcanoes
 - Gas produced by fermentation of biomass
 - Gas produced from certain crude oil wells
 - Gas produced by incomplete combustion of biomass
- (ix) Which of the following is biodegradable?
- Paper
 - D.D.T
 - Plastic
 - Aluminium
- (x) Which of the following problems is not created by noise pollution?
- Diarrhoea
 - Hypertension
 - Deafness
 - Irritation

Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

- Define environment. 2
 - State the components of environment. 3
- What is acid rain? What are the human activities that cause acid rain? 2+3
- What is the primary purpose of Kyoto Protocol? What is sustainable development? 3+2
- Compare the advantages of conventional and non-conventional energy sources. 5
- Write the definition of disaster management. 2
 - What are the components of disaster management? 3

Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

- What are the elements of environment? 3
 - Explain the concept of sustainable development. 5
 - What do you mean by environmental degradation? 2
 - What are the causes of this degradation? 3
 - State the effects of this degradation on environment. 2
- Discuss the scope of environmental education? 5
 - Narrate the impact of technology on the environment. 5
- What is greenhouse effect? 5
 - What are the causes of noise pollution? 5
 - Write some effects of water pollution. 5

- | | | | |
|-----|-----|--|---|
| 10. | (a) | What are technological and social disasters? | 3 |
| | (b) | Explain the terms: | 2 |
| | | i) Earthquakes | 2 |
| | | ii) Tsunami | 2 |
| | | iii) Insect Infestations | |
| | (c) | Write short notes on: | 3 |
| | | i) Political and crowd disaster | 3 |
| | | ii) War and terrorism | |
| 11. | (a) | State the role of government in disaster management. | 5 |
| | (b) | Explain about the actors in disaster management. | 5 |
| | (c) | How relief measures are organized at national and local level? | 5 |
