



BRAINWARE UNIVERSITY

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Barasat, Kolkata -700125

Term End Examination 2023

Programme – M.Sc.(AM)-2020/M.Sc.(AM)-2021

Course Name – Environmental Science and Disaster Management

Course Code - MMM(ENV)301

(Semester III)

Full Marks : 60

Time : 2:30 Hours

[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)

1 x 15=15

1. *Choose the correct alternative from the following :*

- (i) Predict the expected rise in global temperature by the year 2030 is
- | | |
|----------------|---------------|
| a) 10 degree C | b) 8 degree C |
| c) 3 degree C | d) 5 degree C |
- (ii) Most of the energy people use come from
- | | |
|-----------------|----------|
| a) Fossil fuels | b) Sun |
| c) Wind | d) Water |
- (iii) Natural gas is stored as under high pressure
- | | |
|---------|--------------|
| a) CNG | b) LPG |
| c) Coal | d) Petroleum |
- (iv) LNG is composed of
- | | |
|-------------|-----------|
| a) Methane | b) Ethane |
| c) Ethylene | d) Ethyne |
- (v) Which among the following is true regarding cyclones?
- | | |
|--|--|
| a) Rotate counterclockwise in the northern hemisphere and clockwise in the southern hemisphere | b) Rotate clockwise in the northern hemisphere and counterclockwise in the southern hemisphere |
| c) May rotate in any direction in any hemisphere | d) All of these |
- (vi) Lava from volcanoes which erupt under water cools rapidly, this may result in the formation of which rounded structure?
- | | |
|------------------|-------------------|
| a) Pillow Lava | b) Shield volcano |
| c) Black smokers | d) Gabbros |
- (vii) The most potentially renewable energy resource is
- | | |
|-----------------|------------|
| a) Sunlight | b) Wind |
| c) Tidal energy | d) Biomass |

- (viii) Bhopal Gas Disaster is a kind of
- a) Natural Disaster
b) Manmade Disaster
c) Road Accident
d) None of these
- (ix) Floods can be prevented by
- a) Afforestation
b) Cutting the forest
c) Tilling the land
d) Removing the top soil
- (x) Symbiotic bacteria is
- a) Rhizobium
b) Anabena
c) Nostoc
d) All of these
- (xi) The decomposition of dead-bodies of animal and plant by the bacteria such as bacillus subtilis to produce ammonia is known as
- a) Ammonification
b) Nitrification
c) Carbonification
d) Oxygenation
- (xii) The maximum quantity of fresh water occurs in
- a) Rivers
b) Ground water
c) Polar ice caps and glaciers
d) Sea water
- (xiii) Which one of the following Ozone is harmful to public health
- a) Stratospheric ozone
b) Tropospheric ozone
c) Laboratory ozone
d) Lithospheric ozone
- (xiv) The total cyclone prone area in India is
- a) 15%
b) 10%
c) 8%
d) 20%
- (xv) Drought can be classified as
- a) Meteorological drought
b) Hydrological drought
c) Agricultural drought
d) All of these

Group-B

(Short Answer Type Questions)

3 x 5=15

2. What are the need to preserve the nonrenewable resources? (3)
3. Discuss briefly about: National Disaster Management Authority (3)
4. What are the different types of energy resources? Explain with examples. (3)
5. Develop a schematic diagram for aquatic ecosystem. (3)
6. How water is polluted by anthropogenic activities? (3)

OR

Describe the adverse effects of flood (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Write a short note on energy resource with flow chart. (5)
8. What is greenhouse effect? How do greenhouse gases cause global warming? [2 +3] (5)
9. What do you mean by Tsunami? Write down the main reasons of Tsunami. [2+ 3] (5)
10. Define disaster. Describe the types of disaster with examples. [2+ 3] (5)
11. Explain the Advantages and Disadvantages of Using Renewable Energy. (5)
12. Briefly discuss about the hydrological cycle of biosphere with diagram. (5)

OR

What is flood? Describe different types of floods in brief. [2 +3] (5)

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