



BRAINWARE UNIVERSITY

Library
Brainware University
398, Ramkrishnapur Road, Barasat
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Term End Examination 2024-2025
Programme – M.Sc.(AM)-2022/M.Sc.(AM)-2023
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) Phytoplankton and zooplankton sink at the bottom of the ocean to form a hard shell known as
 - a) Kerogen
 - b) Coal
 - c) Natural gas
 - d) Petroleum
- (ii) Green House gas is
 - a) Carbon monoxide
 - b) Water vapour
 - c) Sulfur dioxide
 - d) All of these
- (iii) Ozone protects us from the harmful..... rays of the sun
 - a) Visible
 - b) Ultraviolet
 - c) Infra red
 - d) Microwave
- (iv) By using photovoltaic cell solar energy can be converted into
 - a) Thermal energy
 - b) Mechanical energy
 - c) Electrical energy
 - d) All of these
- (v) The disadvantage of fossil fuels are
 - a) They are non renewable
 - b) They cause harmful effects to the environment
 - c) They are renewable
 - d) Both They are non renewable and They cause harmful effects to the environment
- (vi) Natural gas is stored as under high pressure
 - a) CNG
 - b) LPG
 - c) Coal
 - d) Petroleum
- (vii) High quality fuels are
 - a) Liquid
 - b) Solid
 - c) Gases
 - d) Intermediate between solid and liquid
- (viii) In hydropower

- a) Electrical energy is converted to mechanical energy
 c) Potential energy is converted to kinetic energy
- (ix) In biofuel, vegetable oil is mixed with
 a) Carbon tetrachloride
 c) Chloroform
- (x) Volcanoes are generally found in
 a) Intraplates pull apart or are coming together
 c) Earth's crust pull apart or are coming together
- (xi) Water retention in biosphere by
 a) Cyclic process
 c) Only condensation process
- (xii) Drought can be classified as
 a) Meteorological drought
 c) Agricultural drought
- (xiii) Photochemical fog differs from industrial smog in that it
 a) Is formed in the presence of sunlight
 c) Consists of primary pollutants
- (xiv) Thermocline is an identification of
 a) Same temperature under water
 c) Abrupt changes of temperature in subsurface water
- (xv) Find the following common factors of wildfire hazards.
 a) Volcanic eruption
 c) Volcanic Lighting and thundering
- b) Chemical energy is converted to electrical energy
 d) Kinetic energy is converted to potential energy
- b) Diethyl ether
 d) Ethanol
- b) Tectonic plates pull apart or are coming together
 d) None of these pull apart or are coming together
- b) Only evaporation process
 d) Only precipitation process
- b) Hydrological drought
 d) All of these
- b) Has large quantities of soot
 d) Is primarily composed of CO
- b) Same temperature of surface water
 d) None of these
- b) El-Nino
 d) All of these

Group-B

(Short Answer Type Questions)

3 x 5=15

2. What are the advantages of alternate energy? (3)
3. Write down the effects of ozone layer depletion on human health. Name the gases responsible for ozone layer depletion. (3)
4. Briefly describe the term environmental disaster. (3)
5. Define environmental pollution and its types. (3)
6. What are the characteristics of petroleum? (3)

OR

Describe the adverse effects of flood.

(3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain the advantages of using Renewable Energy. (5)
8. What is an earthquake? Discuss the causes and effects of an earthquake. (5)
9. Disaster management must have four components: prevention, preparedness, response, and recovery. Justify. (5)
10. Write a short note on E-waste. (5)

11. Summarize about man-made disaster.

(5)

12. Write about Disaster Management Act 2005.

(5)

OR

Explain landslides with example.

(5)

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