



BRAINWARE UNIVERSITY

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Brainware University
Barasat, Kolkata -700125

Term End Examination 2022
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) The renewable energy which comes from under Earth's surface is
- | | |
|-----------------|----------------------|
| a) Biomass | b) Geothermal energy |
| c) Tidal energy | d) Coal |
- (ii) 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 |
- (iii) Green House gas is
- | | |
|--------------------|-----------------|
| a) Carbon monoxide | b) Water vapour |
| c) Sulfur dioxide | d) All of these |
- (iv) Ozone protects us from the harmful..... rays of the sun
- | | |
|--------------|----------------|
| a) Visible | b) Ultraviolet |
| c) Infra red | d) Microwave |
- (v) The gas which is not responsible for greenhouse effect is
- | | |
|-----------------|---------------------|
| a) Water vapour | b) Hydrogen sulfide |
| c) CFC's | d) Methane |
- (vi) Ozone hole is found over
- | | |
|--------------|---------------|
| a) Australia | b) India |
| c) Italy | d) Antarctica |
- (vii) Which causes damage to marble house?
- | | |
|-------------------|-----------------------|
| a) Acid rain | b) Greenhouse effect |
| c) Global warming | d) Photochemical smog |
- (viii) Greenhouse effect is due to
- | | |
|-----------------------------|----------------------------|
| a) Over cultivation of land | b) Testing nuclear weapons |
|-----------------------------|----------------------------|

- c) Some atmospheric gases like CO₂, N₂O and some man-made gases d) Soil pollution
- (ix) By using photovoltaic cell solar energy can be converted into
 a) Thermal energy b) Mechanical energy
 c) Electrical energy d) All of these
- (x) 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
- (xi) Hydroelectricity provides electric power supply of
 a) 5% b) 10%
 c) 20% d) 50%
- (xii) In present times humans consume..... percent greater energy than ancient people .
 a) 80 b) 90
 c) 100 d) 110
- (xiii) 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
- (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 is ecosystem? Classify the ecosystem with example. (3)
3. What are the uses of biofuel? (3)
4. Write a short note on water resources. (3)
5. Develop a schematic diagram for aquatic ecosystem. (3)
6. Analyzed the effects of acid rain on the living species. (3)

OR

Discuss the causes and effects of earthquake. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain environmental ethics. What is the relation between environment and human? [2 +3] (5)
8. Define volcanic eruption? Write down the causes of volcanic eruption. [2+3] (5)
9. Briefly discuss about the hydrological cycle of biosphere with diagram. (5)
10. Write a short note on energy resource with flow chart. (5)
11. Explain the Advantages and Disadvantages of Using Renewable Energy. (5)
12. Discuss the points about Safety usage of LPG. (5)

OR

What is soil? What are the components of soil? What are the main components of SIAL ? [1 +2 +2] (5)

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