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Term End Examination 2025-2026
Programme – M.Sc.(AM)-2022/M.Sc.(AM)-2024
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 causes of landslide is not due to

a) Water pollution
b) Noise pollution
c) Industrialisation
d) Both Water pollution and Noise pollution

(ii) Example(s) of conventional type of renewable resources may be

a) Plants
b) Wildlife
c) Aquaculture
d) All of these

(iii) Most of the energy people use come from

a) Fossil fuels
b) Sun
c) Wind
d) Water

(iv) 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

(v) The highest carbon content is found in ..... coal

a) Anthracite
b) Bituminous
c) Lignite
d) All of these

(vi) Natural gas is stored as ..... under high pressure

a) CNG
b) LPG
c) Coal
d) Petroleum

(vii) Natural gas has almost ..... percent of methane

a) 85
b) 90
c) 80
d) 75

(viii) Pick the odd one out in the following energy sources.

a) Coal
b) Geothermal
c) Oil
d) Natural gas

(ix) In hydropower

a) Electrical energy is converted to mechanical energy
b) Chemical energy is converted to electrical energy
c) Potential energy is converted to kinetic energy
d) Kinetic energy is converted to potential energy

(x) What is the full form of LPG?

a) Liquefied petrol gas
b) Liquid petroleum gas
c) Liquefied petroleum gas
d) Liquid polymer gas

(xi) Volcanoes are generally found in

a) Intraplates pull apart or are coming together
b) Tectonic plates pull apart or are coming together
c) Earth's crust pull apart or are coming together
d) None of these pull apart or are coming together

(xii) Floods can be prevented by

a) Afforestation
b) Cutting the forest
c) Tilling the land
d) Removing the top soil

(xiii) *E. coli* used as an indicator organism to determine pollution of water with

a) Industrial effluents
b) Heavy metals
c) Pollen of aquatic plants
d) Faecal matter

(xiv) Identify the condition when concetration of oxygen decrease in blood

a) Nausea
b) Carboxy-haemoglobin transportation
c) Hypoxia
d) Parkinson's disease

(xv) The year declared as the "water year" by the Indian Government is

a) 2010
b) 2005
c) 2006
d) 2007

Group-B

(Short Answer Type Questions) 3 x 5=15

2. What are the different types of energy resources? Explain with examples. (3)

3. Write down the effects of ozone layer depletion on human health. (3)

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4. Define ecosystem and function of ecosystem. (3)
5. Write a short note on Natural Disasters. (3)
6. Summarize the key elements of a contingency plan. (3)

OR

Write pre disaster contingency plan. (3)

Group-C

(Long Answer Type Questions) 5 x 6=30

7. Define volcanic eruption. Write down the causes of volcanic eruptions. (5)
8. Discuss the points about Safety usage of LPG. (5)
9. Disaster management must have four components: prevention, preparedness, response, and recovery. Justify. (5)
10. Analyze the seismic zone in India. (5)

11. Summarize the impact of Air Pollution on human. (5)
12. Explain the advantages of using Renewable Energy. (5)

OR

Write about Disaster Management Act 2005. (5)

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