



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – Dip.CE-2022

Course Name – Disaster Management

Course Code - DCEOE501A

(Semester V)

Library

Brainware University
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Kolkata, West Bengal-700125

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) Identify the term used to describe a natural or human-made event causing significant disruption and damage.
 - a) Hazard
 - b) Vulnerability
 - c) Disaster
 - d) Risk
- (ii) Identify the type of hazard that originates from human activities.
 - a) Biological
 - b) Natural
 - c) Technological
 - d) Physical
- (iii) Select the best description of a natural hazard.
 - a) An event caused by human activities
 - b) A potential source of harm from natural processes
 - c) A measure of a community capacity
 - d) The impact of a disaster
- (iv) State the difference between a hazard and a disaster.
 - a) A hazard is an event; a disaster is a result of that event
 - b) A disaster is an event; a hazard is the impact
 - c) A disaster is an event; a hazard is the frequency
 - d) A hazard is an event; a disaster is the vulnerability
- (v) Identify the primary factor that leads to coastal erosion.
 - a) Wave action
 - b) Earthquake
 - c) Deforestation
 - d) Volcanic eruption
- (vi) Select the type of disaster resulting from hazardous material release.
 - a) Chemical spill
 - b) Tsunami
 - c) Cyclone
 - d) Landslide

- (vii) Write the physical impacts of a volcanic eruption on the surrounding areas.
- | | |
|-------------------|------------------|
| a) Urban flooding | b) Air pollution |
| c) Earthquakes | d) Landslides |
- (viii) Write the global trend of disaster frequency over the last decade.
- | | |
|-------------|----------------|
| a) Decrease | b) No change |
| c) Increase | d) Fluctuation |
- (ix) Act to assess the economic damage caused by a major hurricane.
- | | |
|-------------------------------|---------------------------|
| a) Evaluate insurance claims | b) Conduct a census |
| c) Survey affected businesses | d) Analyze trade patterns |
- (x) Write the political impact of disaster recovery efforts in developing countries.
- | | |
|---------------------------|---------------------------|
| a) Increased foreign aid | b) Decreased public trust |
| c) Strengthened alliances | d) Improved governance |
- (xi) Act to identify the hazard location most susceptible to landslides.
- | | |
|-------------------|--------------------|
| a) Coastal plains | b) Mountain slopes |
| c) River basins | d) Urban centers |
- (xii) State the main goal of vulnerability and capacity assessment.
- | | |
|----------------------------------|-----------------------------|
| a) To identify hazards | b) To determine risk levels |
| c) To assess community strengths | d) To prioritize resources |
- (xiii) Identify the government body responsible for disaster risk reduction in India.
- | | |
|-----------------------------|--|
| a) Ministry of Home Affairs | b) National Disaster Management Authority (NDMA) |
| c) Indian Red Cross Society | d) Central Water Commission |
- (xiv) Identify the factor that enhances community resilience through environmental management.
- | | |
|--|--|
| a) Increased use of non-renewable energy | b) Community-based natural resource management |
| c) Expansion of urban areas into rural zones | d) Unregulated land use |
- (xv) Classify the role of environmental impact assessments in development projects.
- | | |
|-------------------------------------|--|
| a) To increase economic costs | b) To evaluate and mitigate potential environmental harm |
| c) To promote unchecked development | d) To ignore local environmental conditions |

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the concept of disaster and its key characteristics. (3)
3. Describe the impact of disasters on environmental and social systems. (3)
4. Discuss the causes and consequences of cyclones and earthquakes in coastal and mountain areas. (3)
5. Modify the approach to evaluating the economic impacts of disasters, incorporating recent trends. (3)
6. Classify the different types of environmental modifications and their impacts on disaster risk. (3)

OR

- Explain the concept of sustainable recovery in the context of disaster management. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Describe the stages of disaster management. (5)
 8. Discuss the role of human activities in exacerbating the impacts of natural disasters such as soil erosion and forest fires. (5)
 9. Write an in-depth discussion on the impact of climate change on disaster frequency and intensity, including examples. (5)
 10. Classify the health impacts of disasters into immediate and long-term effects, providing examples. (5)
 11. Classify the types of disaster recovery methods and explain their benefits and limitations. (5)
 12. Consider the impact of implementing structural measures on urban disaster resilience. (5)
- OR**
- Evaluate the effectiveness of non-structural measures in disaster risk reduction. (5)
