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Brainware University
Barasat, Kolkata -700125

Term End Examination 2025-2026
Programme – Dip.CE-2022/Dip.CE-2023
Course Name – Disaster Management
Course Code - DCEOE501A
(Semester V)

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 that quantifies how often a hazard might occur.

a) Severity b) Capacity
c) Frequency d) Impact

(ii) Select the factor that measures the magnitude of potential loss or damage.

a) Risk b) Vulnerability
c) Capacity d) Prevention

(iii) Classify cyclones based on the hemisphere they occur in.

a) Northern Hemisphere and Southern Hemisphere b) Coastal and Inland
c) High Pressure and Low Pressure d) Cold Front and Warm Front

(iv) Identify the natural disaster that often triggers tsunamis.

a) Volcanic eruption b) Earthquake
c) Cyclone d) Flood

(v) Choose the primary impact of disasters on urban infrastructure.

a) Economic b) Environmental
c) Physical d) Political

(vi) Act to identify the demographic group most vulnerable to psycho-social issues post-disaster.

a) Adults b) Children
c) Elderly d) Teenagers

(vii) List the primary structural measures used in disaster risk reduction.

a) Education campaigns b) Building codes
c) Public awareness d) Community drills

(viii) Select the nonstructural measure that involves planning and policy formulation.

a) Retrofitting buildings b) Constructing levees
c) Implementing early warning systems d) Conducting vulnerability assessments

(ix) List the responsibilities of local institutions in disaster risk reduction.

a) Monitoring hazards and issuing warnings
b) Implementing recovery plans and providing training
c) Coordinating international aid and managing funds
d) Enforcing evacuation orders and assessing damage

(x) Select the phase of the disaster management cycle associated with providing temporary shelter.

a) Preparedness
b) Response
c) Mitigation
d) Recovery

(xi) Identify the effect of dam construction on local communities.

a) Increased agricultural productivity
b) Displacement of residents
c) Enhanced biodiversity
d) Improved air quality

(xii) Classify the primary environmental modification caused by urbanization.

a) Increased forest cover
b) Enhanced soil fertility
c) Reduction in green spaces
d) Improved water quality

(xiii) Identify the factor that exacerbates vulnerability in coastal areas.

a) High elevation
b) Well-developed infrastructure
c) Proximity to the coastline
d) Low population density

(xiv) Classify a method that promotes environmental sustainability in reconstruction efforts.

a) Use of non-renewable resources
b) Emphasis on large-scale industrial projects
c) Incorporation of green building practices
d) Expansion of urban sprawl

(xv) Select the environmental modification resulting from large-scale dam projects.

a) Improved flood control
b) Increased biodiversity
c) Displacement of communities
d) Enhanced water quality

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Group-B

(Short Answer Type Questions) 3 x 5=15

2. Describe the terms hazard, risk, and vulnerability with their definitions. (3)
3. Compare the impacts of floods and droughts in terms of their effects on agriculture and infrastructure. (3)
4. State the importance of risk analysis in disaster management. (3)
5. Discuss the importance of integrating disaster risk management in urban planning. (3)
6. Consider how artificial flooding in urban areas exacerbates disaster management challenges. (3)

OR

Evaluate the long-term effects of nuclear radiation on human health and the environment in disaster-prone areas. (3)

Group-C

(Long Answer Type Questions) 5 x 6=30

7. Describe the various disaster types with their potential impacts. (5)
8. Explain the significance of disaster impact assessment. (5)
9. Write a detailed analysis of the socio-political impacts of disasters on governance and policy-making. (5)
10. Evaluate the effectiveness of non-structural measures in disaster risk reduction. (5)
11. Compare the effectiveness of traditional disaster recovery methods versus modern, eco-friendly recovery methods. (5)
12. Explain the socio-economic impacts of natural disasters on developing countries, using recent examples. (5)

OR

Classify the health impacts of disasters into immediate and long-term effects, providing examples. (5)