



BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Tech.(CE)]-2021
Course Name – Disaster Management
Course Code - OEC-CE701A
(Semester VII)

Library
Brainware University
398, Ramkrishnapur Road, Barasat
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 type of disaster characterized by heavy rainfall leading to overflow of rivers.
 - a) Earthquake
 - b) Cyclone
 - c) Flood
 - d) Landslide
- (ii) Select the disaster that typically occurs in coastal regions due to atmospheric disturbances.
 - a) Cyclone
 - b) Earthquake
 - c) Landslide
 - d) Drought
- (iii) Select the consequence of air pollution from industrial activities on the environment.
 - a) Global warming
 - b) Enhanced biodiversity
 - c) Increased rainfall
 - d) Soil erosion
- (iv) Select the disaster associated with toxic gas leaks from industrial plants.
 - a) Cyclone
 - b) Earthquake
 - c) Industrial pollution
 - d) Flood
- (v) Choose the correct definition of risk in the context of disaster management.
 - a) The certainty of safety and security
 - b) The likelihood of a hazard causing significant damage
 - c) The probability of an event happening without consequences
 - d) The absence of any threats
- (vi) Select the primary objective of risk reduction strategies.
 - a) To eliminate all risks
 - b) To minimize the potential impact of risks
 - c) To increase the occurrence of hazards
 - d) To disregard emergency preparedness
- (vii) Choose the measure aimed at reducing the risk of building collapse during earthquakes.

- a) Increasing building height
c) Ignoring safety inspections
- (viii) Choose the main consequence of inadequate risk communication.
a) Reduced public awareness
c) Increased emergency response efficiency
- (ix) Select the risk management strategy that focuses on minimizing exposure to hazards.
a) Risk Retention
c) Risk Escalation
- (x) Choose the key function of logistic management during a disaster.
a) Disrupting supply chains
c) Ignoring transportation routes
- (xi) Choose the primary goal of search and rescue operations.
a) To evacuate unaffected areas
c) To delay response efforts
- (xii) State the reason for conducting search and rescue drills.
a) To reduce response time and improve efficiency
c) To ignore the need for rescue operations
- (xiii) State the importance of community involvement in disaster-resistant housing projects.
a) To exclude local input
c) To increase project costs
- (xiv) Select the best approach for creating long-term job opportunities after a disaster.
a) Immediate cash-for-work programs
c) Importing external labor
- (xv) Choose the best measure to ensure long-term hygiene after a disaster.
a) Regularly distributing hygiene kits
c) Providing free medical check-ups
- b) Strengthening structural design
d) Reducing building materials quality
- b) Enhanced disaster preparedness
d) Strengthened community resilience
- b) Risk Avoidance
d) Risk Sharing
- b) Ensuring timely delivery of essential supplies
d) Increasing the burden on local resources
- b) To locate and save lives in danger
d) To increase the number of casualties
- b) To increase confusion during actual events
d) To delay emergency actions
- b) To ensure that houses meet the specific needs and preferences of the community
d) To reduce the quality of construction
- b) Investment in local businesses
d) Subsidizing temporary employment
- b) Reconstructing sewage systems
d) Conducting community hygiene education

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the effects of floods on communities and infrastructure. (3)
3. Compare the environmental effects of natural disasters versus man-made disasters. (3)
4. Write a detailed analysis of risk reduction strategies in urban planning. (3)
5. Compare relief strategies for different disasters. (3)
6. Evaluate the importance of disaster-resistant construction practices. (3)

OR

Consider the livelihood options available to communities post-disaster. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Evaluate the effectiveness of public awareness campaigns in disaster preparedness. (5)
8. Consider the role of technology in enhancing disaster recovery processes. (5)
9. Match different types of natural disasters with their historical impacts. (5)
10. Discuss the implications of structural failures during disasters on public safety. (5)
11. Write a comprehensive report on vulnerability assessment methods and their applications. (5)

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12. Explain the evaluation process of a disaster response plan post-incident. (5)

OR

Classify various methods of search and rescue operations. (5)
