

IN DISASTER MANAGEMENT E OF EXAMINATIONS

Semester and Course No.	Nomenclature	Max. Marks	Hours of Teaching per week
COURSE-I	Introduction to Natural & Man-made Disasters	100	6 Hours
COURSE-II	Disaster Preparedness*	100	6 Hours
COURSE-III	Rehabilitation, Reconstruction & Recovery	100	6 Hours
COURSE-IV	Disaster Response and Disaster Management	100	6 Hours
COURSE-V	Risk Assessment and Vulnerability Analysis	100	6 Hours
COURSE óVI	Project Report	100	6 Hours
		600	36 Hours

O NATURAL AND MAN MADE DISASTERS

Max. Marks: 100
(Theory 80 + I.A. 20 Marks)

UNIT-I

Understanding Disasters

- Meaning, nature, characteristics and types of Disasters, Causes and effects, Disaster: A Global View, Disaster Profile of India, The Disaster Management cycle.

UNIT-II

Geological and Mountain Area Disasters

- Earthquakes
- Volcanic Eruption
- Landslides
- Snow Avalanches

UNIT-III

Wind and Water Related Natural Disaster

- Floods and Flash Floods
- Droughts
- Cyclones
- Tsunamis

UNIT-IV

Man Made Disasters

- Understanding Man-Made Disasters
- Fires and Forest Fires
- Nuclear, Biological and Chemical disaster
- Road Accidents

Notes:

1. The paper would be set from the syllabus covering the full content. EIGHT questions, two from each unit, are to be framed. Candidates will have to attempt FOUR questions, one from each unit.
2. All questions will carry equal marks.

Suggested Readings:

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Carter, W. Nick, 1991: Disaster Management, Asian Development Bank, Manila.
3. Central Water Commission, 1987, Flood Atlas of India, CWC, New Delhi.
4. Central Water Commission, 1989, Manual of Flood Forecasting, New Delhi.
5. Government of India, 1997, Vulnerability Atlas of India, New Delhi.
6. Sahni, Pardeep et.al. (eds.) 2002, Disaster Mitigation Experiences and Reflections, Prentice Hall of India, New Delhi.

PREPAREDNESS

Max. Marks: 100
(Theory 80 + I.A. 20 Marks)

UNIT-I

Introduction to disaster Preparedness

- Disaster Management: Prevention, Preparedness and Mitigation
- Disaster Preparedness: Concept & Nature
- Disaster Preparedness Plan
- Disaster Preparedness for People and Infrastructure
- Community based Disaster Preparedness Plan

UNIT-II

Roles & Responsibilities of Different Agencies and Govt.

- Roll of Information, Education, Communication & Training
- Role and Responsibilities of Central, State, District and local administration.
- Role and Responsibilities of Armed Forces, Police, Para Military Forces.
- Role and Responsibilities of International Agencies, NGOø, Community Based Org. (CBOø)

UNIT-III

Technologies for Disaster Management

- Role of IT in Disaster Preparedness
- Remote Sensing, GIS and GPS
- Use and Application of Emerging Technologies
- Application of Modern Technologies for the Emergency communication.
- Application and use of ICST for different disasters.

UNIT-IV

Disaster Mitigation

- Disaster Mitigation: meaning and concept
- Disaster Mitigation Strategies
- Emerging Trends in Disaster Mitigation
- Mitigation management
- Role of Team and Coordination

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2. All questions will carry equal marks.

Suggested Readings:

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Roy, P.S. (2000): Space Technology for Disaster management: A Remote Sensing & GIS Perspective, Indian Institute of Remote Sensing (NRSA) Dehradun.
3. Sharma, R.K. & Sharma, G. (2005) (ed) Natural Disaster, APH Publishing Corporation, New Delhi.
4. www.GIS.Development.net
5. www.iirs.nrsa.org
6. <http://quake.usgs.gov>

ON, RECONSTRUCTION AND RECOVERY

Max. Marks: 100
(Theory 80 + I.A. 20 Marks)

UNIT-I

- Reconstruction and Rehabilitation as Means of Development
- Damage Assessment
- Role of various Agencies in Disaster Management and Development
- Information Management Structure
- Development of Physical and Economic Infrastructure

UNIT-II

- Creation of Long-term Job Opportunities and Livelihood Options
- Funding Arrangements for Reconstruction
- Nature of Damage to Houses and Infrastructure due to Disasters
- Disaster Resistant House Construction
- Role of Housing/ Building Authorities

UNIT-III

- Education and Awareness
- The Philosophy of Coping with Disasters
- Dealing with Victims' Psychology
- Role of Information Dissemination
- Participative Rehabilitation Process: Some Case Studies

UNIT-IV

- Role of Various Agencies in Recovery Measures
- Monitoring and Evaluation of Rehabilitation Work
- Constraints in Monitoring and Evaluation
- Long-term Recovery
- Long-term Counter Disaster Planning

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2. All questions will carry equal marks.

Suggested Readings:

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Kasperson, J.X., R.E. Kasperson, and B.L. Turner III (Eds.), 1995, Regions at Risk: Comparisons of Threatened Environments, United Nations University Press, Tokyo
3. Singh Satendra (2003): Disaster Management in the Hills, Concept Publishing Company, New Delhi.
4. www.nidmindia.nic.in
5. <http://www.cambridge.org>.

ER RESPONSE AND MANAGEMENT

Max. Marks: 100
(Theory 80 + I.A. 20 Marks)

UNIT-I

Response Essential Components

- Disaster Response Plan
- Communication, Participation and Activation of Emergency Preparedness Plans
- Search, Rescue, Evacuation and other logistic management
- Needs and Damage Assessment; Types and Technique

UNIT-II

Stakeholders Co-ordination in Disaster Response

- Disaster Response: Central, State, District and Local Administration.
- Armed Forces in Disaster Response: Role and Responsibility
- Disaster Response: Police and Other organisations
- Role of Multiple stakeholders in Disaster Response

UNIT-III

Human Behaviour and Response Management

- Psychological Response and Psychological Rehabilitation
- Trauma and Stress Management
- Rumour and Panic Management
- Medical and Health Response to Different Disasters
- Role of Information and Communication Technology in Response Management.

UNIT-IV

Relief Measures

- Minimum Standard of Relief
- Relief Management- essential components
- Funding Relief- short term and long term
- Disaster Site Management
- Recovery.

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2. All questions will carry equal marks.

Suggested Readings:

1. White, G.F, 1974, Natural Hazards: Local, National, Global, Oxford University Press, New York.
2. Taori, K (2005) Disaster Management through Panchayati Raj, Concept Publishing Company, New Delhi.
3. www.nidmindia.nic.in

MENT AND VULNERABILITY ANALYSIS

Max. Marks: 100
(Theory 80 + I.A. 20 Marks)

UNIT-I

- Hazard, Risk and Vulnerability: Concept and Relationship
- Understanding Risk: Concepts and Elements
- Disaster Risk Reduction
- Risk Analysis Techniques
- People Participation in Risk Assessment

UNIT-II

- Vulnerability: Concept and Parameters
- Vulnerability Analysis
- Observation and Perception of Vulnerability
- Vulnerability Identification

UNIT-III

- Socio-Economic Factors of Vulnerability
- Vulnerability of Shanty Town
- Experience of Vulnerability in India
- Strategies for Survival

UNIT-IV

- Role of Developmental Planning for disaster Management
- Resource Analyses and Mobilisation
- Population Growth, Infrastructure and Vulnerability Reduction
- Social Infrastructure For Vulnerability Reduction

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Suggested Readings:

1. White, Gilbert F. and J. Eugene Hass, 1975, Assessment of Research on Natural Hazards, Cambridge, the MIT Press, MA.
2. NOAA Coastal Services Center, "Linking People Information and Technology," "Risk and Vulnerability Assessment Tool", at, <http://www.csc.noaa.gov/rvat/criticalEdd.html>
3. www.nidmindia.nic.in
4. <http://www.cambridge.org>.



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