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MEER SIR ACADEMY

MSc Disaster Management and Climate Sustainability Studies

Entrance Test Syllabus

Department of Geography
Jamia Millia Islamia New Delhi

Programme Code M70

Programme Information	Details
University	Jamia Millia Islamia
Department	Department of Geography
Programme	M.Sc. Disaster Management and Climate Sustainability Studies
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Document	Entrance Test Syllabus

Topic-wise preparation guide for the JMI entrance examination

Physical Geography

Geomorphology and Earth Processes

- Interior of the Earth and seismic evidence
- Geological time scale
- Forces of the Earth's crust and Earth movements



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Folds and faults
Volcanoes and earthquakes
Rocks and major landforms
Weathering and mass wasting
Types of streams and drainage patterns
Evolution of landscapes: fluvial, glacial, aeolian, coastal and karst

Climatology

Elements of weather and climate
Composition and structure of the atmosphere
Insolation and heat budget
Temperature, pressure and winds
Humidity, condensation and precipitation
Forms of precipitation and types of rainfall
Air masses and fronts
Cyclones and anticyclones
Koppen's classification of climates

Oceanography

Surface configuration of the ocean floor
Submarine relief of the Atlantic and Indian Oceans
Ocean temperature and salinity
Tides and currents
Sea-level rise

Human and Regional Geography

Population and Urbanization

World patterns of population growth, distribution and density
Determinants of population distribution
Human migration: past and present
Population problems of developed and developing societies
Patterns of urbanization in the world

Geography of India

Structure and physiographic divisions of India



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Drainage system
Climate of India
Origin and mechanism of the Indian monsoon
Seasons of India and classification of climate
Trends and patterns of population growth and distribution
Patterns of urbanization in India
Population problems and policies

Environment and Sustainable Development

Human-environment relationship
Environmental crisis: nature and management
Deforestation and desertification
Floods and droughts
Soil erosion and land degradation
Water pollution
Conservation of biodiversity
Global warming
Population explosion, food security and sustainable development

Cartography Statistics and Geospatial Techniques

Cartography and Map Interpretation

Definition and classification of maps
Map projections
Methods of relief representation
Contours and their profiles
Determination of slope and gradient
Topographic sheets
Isotherms, isobars and isohyets
Climographs and hythergraphs
Qualitative and quantitative areal distribution maps

Statistical Methods

Measures of central tendency
Measures of dispersion
Coefficient of variation



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Measures of association

Regression

Remote Sensing GIS and GPS

Remote sensing: history, development, types and concept of electromagnetic radiation

Geographic Information System: definition, history and development

Sources of spatial and non-spatial data

Global Positioning System: definition, types and segments

Disaster Management and Climate Sustainability

Disaster Concepts and Management

Approaches and models of disaster management

Typology and classification of disasters

Disaster-management cycle

Key concepts in disaster management

Vulnerability analysis and risk analysis

Disaster Risk Reduction DRR

Ethics in disaster management

Important natural and human-made disasters

Climate Change Governance

International approaches to coping with climate change

United Nations Framework Convention on Climate Change UNFCCC

Paris Agreement

Kyoto Protocol and other major climate agreements

United Nations Office for Disaster Risk Reduction UNDRR

Climate-change mitigation in developing countries

Role of the public and private sectors in climate action in India

Frameworks Laws and Institutions

Hyogo Framework for Action

Sendai Framework for Disaster Risk Reduction

Environment Protection Act

Coastal Regulation Zone Notification

Disaster Management Act 2005

Present structure of disaster management in India



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Crisis Management Plan CMP and Standard Operating Procedures SOPs

Post Disaster Needs Assessment PDNA

Functions and structure of the National Institute of Disaster Management NIDM

International agencies involved in disaster management

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