

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I

PAPER-I

(Approaches and Theories of Disasters)

Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What is Disaster ? Differentiate between natural disasters and man-made disasters.
2. Describe the characteristics and problem areas of any two of the following :
 - (a) Flood
 - (b) Landslide
 - (c) Epidemic
3. What is Vulnerability ? Describe different types of Vulnerability in detail.
4. Give a brief account of the early warning system of modern disasters.
5. Write an essay on globalization and disaster studies.
6. What are disaster management approaches ? Describe the community based disaster management approach in detail.
7. Discuss the problems related to disaster management in detail.
8. Write an essay on the management of human behaviour and response in disaster situation.
9. Enumerate characteristics of disasters. Briefly describe disaster impacts model.
10. Write a note on the occurrence of crime and disease during disasters.



EXAMINATION PROGRAMME-2022
M.A./M.Sc. Disaster Management, Part-I

Date	Papers	Time	Examination Centre
09.11.2022	Paper-I	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
11.11.2022	Paper-II	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
14.11.2022	Paper-III	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
16.11.2022	Paper-IV	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
18.11.2022	Paper-V	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
21.11.2022	Paper-VI	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
23.11.2022	Paper-VII	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
25.11.2022	Paper-VIII	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER-II
(Fundamentals of Disaster Management)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What is disaster management ? Discuss the importance of disaster management in detail.
2. Give a detailed account of the objectives of disaster management.
3. Explain the following :-
 - (a) Disaster preparedness
 - (b) Environmental degradation
4. Describe various steps in hazard assessment in detail.
5. What is rapid damage assessment ? Discuss rapid damage management procedures in detail.
6. Discuss the role of mass media in disaster relief operations.
7. Write notes on any Two of the following :—
 - (a) INSARAG
 - (b) Disaster Broadcasting
 - (c) Prime Minister's national Relief Fund
8. What is disaster relief ? Discuss the problem areas in disaster recovery.
9. What are the various mechanisms of response to natural disasters ? Discuss them in detail.
10. Explain the following :-
 - (a) Principles of rehabilitation and reconstruction
 - (b) Recovery and development



M.A./M.Sc. Disaster Management, Part-I
Practical Counselling Classes & Practical Examination Programme, 2022
for Paper-IV, VI & VII
Venue : 2nd Floor, Biscomaun Bhawan, Patna-800001.

<i>Practical Counselling Class Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
27.11.2022	IV	10.30 AM to 4.30 PM
27.11.2022	VI	
27.11.2022	VII	

<i>Practical Examination Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
28.11.2022	IV	10.30 AM to 12.30 PM
29.11.2022	VI	10.30 AM to 12.30 PM
29.11.2022	VII	1.00 PM to 3.00 PM

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER–III
(Natural and Human Induced Disasters)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What is tsunami? Describe the disasters caused by a tsunami in detail.
2. Describe different types of volcanoes and the disasters caused by them.
3. Write explanatory notes on the following:
 - (a) Human-induced disasters
 - (b) Droughts
4. What are avalanches? Describe some important avalanches.
5. What are landslides? Describe how landslides are caused.
6. Write short notes on the following:
 - (i) Lava domes
 - (ii) Hailstorms
 - (iii) Heat Wave
 - (iv) Sinkhole
7. Write an essay on the status of chemical disaster risk in India.
8. Discuss the effects of water pollution on human health.
9. What is global warming? Discuss its causes and effects in detail.
10. Write an essay on biological warfare and bioterrorism.

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M.A./M.Sc. Disaster Management, Part-I
Practical Counselling Classes & Practical Examination Programme, 2022
for Paper–IV, VI & VII
Venue : 2nd Floor, Biscomaun Bhawan, Patna-800001.

<i>Practical Counselling Class Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
27.11.2022	IV	10.30 AM to 4.30 PM
27.11.2022	VI	
27.11.2022	VII	

<i>Practical Examination Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
28.11.2022	IV	10.30 AM to 12.30 PM
29.11.2022	VI	10.30 AM to 12.30 PM
29.11.2022	VII	1.00 PM to 3.00 PM

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER-IV

(Role of Remote Sensing & GIS in Disaster Management)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What do you mean by the term 'Remote Sensing' ? Discuss its advantages and disadvantages in detail.
2. Describe the various components of remote sensing in detail. What is an electromagnetic spectrum ?
3. Discuss the applications of remote sensing in disaster management in detail.
4. Write notes on following :-
 - (a) Principles of remote sensing
 - (b) Remote sensing image resolution
5. What is GIS ? Describe the software and hardware components of GIS.
6. Discuss the applications of GPS in detail. How accurate is GPS for speed measurement ?
7. Write explanatory notes on :
 - (a) GPS Accuracy
 - (b) GIS Data Types
8. Give an account of geoinformatics perspectives in disaster management.
9. Discuss the application of Remote sensing and GIS in earthquake hazard management.
10. Describe the following :
 - (a) Digital Elevation Model
 - (b) Remote sensors



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M.A./M.Sc. Disaster Management, Part-I
Practical Counselling-cum-Examination Programme, 2022
for Paper-IV, VI & VII

<i>Practical Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
20.11.2022	IV	9.00 AM to 12.00 Noon
20.11.2022	VI	12.00 Noon to 3.00 PM
20.11.2022	VII	3.00 PM to 6.00 PM

Venue : Room No. 1, Nalanda Open University, Biscomaun Bhawan, Patna-800001.

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER-V
(Finance and Insurance in Disaster Management)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What do you mean by insurance? Give an account of the importance of insurance to individuals.
2. Discuss the insurance claim process in detail.
3. Describe the following:—
 - (i) Health insurance
 - (ii) Automobile insurance
4. Differentiate between assurance and re-insurance.
5. What are risk management products? Describe their characteristics in detail.
6. Discuss risk management objectives in detail.
7. Explain the community perspectives of disasters and insurance decisions.
8. Discuss the NDMA guidelines for earthquakes and tsunamis.
9. Describe the various types of business models in dynamic financial analysis.
10. Give an account of the World Bank's post-disaster role update.

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M.A./M.Sc. Disaster Management, Part-I
Practical Counselling-cum-Examination Programme, 2022
for Paper-IV, VI & VII

<i>Practical Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
20.11.2022	IV	9.00 AM to 12.00 Noon
20.11.2022	VI	12.00 Noon to 3.00 PM
20.11.2022	VII	3.00 PM to 6.00 PM

Venue : Room No. 1, Nalanda Open University, Biscomaun Bhawan, Patna-800001.

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER-VI

(Research Methods in Disaster Management)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Discuss the role of research proposal in scientific investigations.
2. Discuss the important steps involved in research process in research methodology.
3. Describe in detail what you know about the collection and analysis of data.
4. Differentiate between:
 - (i) Descriptive investigation and comparative investigation
 - (ii) Random sampling and snowball sampling
5. What are primary and secondary sources of data?
6. What are the generally accepted principles of tabulation? Describe them in detail.
7. Describe the importance of questionnaire and interview in data collection.
8. Write notes on the following:
 - (i) Sampling design in research methodology
 - (ii) Probability sampling techniques
9. Describe the main sections of standard report writing format.
10. Enumerate the pointers to score high in report writing.

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M.A./M.Sc. Disaster Management, Part-I
Practical Counselling-cum-Examination Programme, 2022
for Paper-IV, VI & VII

<i>Practical Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
20.11.2022	IV	9.00 AM to 12.00 Noon
20.11.2022	VI	12.00 Noon to 3.00 PM
20.11.2022	VII	3.00 PM to 6.00 PM

Venue : Room No. 1, Nalanda Open University, Biscomaun Bhawan, Patna-800001.

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER-VII

(Disaster in India)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What is a 'disaster profile'? Give an account of the disaster profiles of India.
2. Describe the earthquake prone areas of India in detail. Why do earthquakes strike the Himalayan region most?
3. Which areas in India are affected by droughts most?
4. Describe the avalanches of western Himalayas in detail.
5. What are landslides? Discuss the recurrence of landslides in Himalayas.
6. Describe in detail some of the recent cyclones originating in the Bay of Bengal.
7. Write in detail the devastations caused by floods in the Ganga basin.
8. Give a detailed account of urban disasters. Explain how Mumbai is prone to various disasters.
9. Give an account of the road accidents in India.
10. Describe in detail some important chemical disasters in India.

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M.A./M.Sc. Disaster Management, Part-I के विद्यार्थियों को सूचित किया जाता है कि जिन विद्यार्थियों की पत्र-IV, VI, VII की प्रायोगिक परीक्षा अपरिहार्य कारणवश छूट गयी है, वे दिनांक 24.11.2022 को पूर्वाह्न 11 बजे से बिस्कोमान भवन के तृतीय तल स्थित समन्वयक डॉ० बी.के. मिश्रा, कक्ष (कमरा सं० 305) में आयोजित सम्बन्धित पत्रों की प्रायोगिक परीक्षा में भाग ले सकते हैं ।

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER–VIII

(Disaster Management in India)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Describe the roles and responsibilities of the government of India in disaster management.
2. How do the United Nations and other international organizations extend their help in disaster management?
3. Discuss the role of Civil Defense in disaster management in detail.
4. Describe the following:
 - (i) National Institute of Disaster Management
 - (ii) National Disaster Response Force
5. Describe the National Policy framework of disaster management in detail.
6. Describe the origin and constitution of Bihar State Disaster Management Authority and add a note on its role and responsibilities.
7. What do you know about the working of the District Disaster Management Authority? Write briefly about the district crisis management group.
8. Write in detail about the various aspects of community participation in disaster management and risk reduction.
9. Give an account of the good practices for private sector's participation in disaster risk reduction.
10. Describe how academic institutions can help develop a culture of preparedness for disaster risk reduction.

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NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-II

PAPER-IX

(Legal Aspects of Disaster Management)

Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

*Answer any Five Questions.
All questions carry equal marks.*

1. Discuss the role of human rights in Disaster Management.
2. What are the long term implications of disasters with regard to Law ?
3. Explain the importance of Judicial Activism in Disaster Management.
4. State and describe the Disaster Management Act, 2005.
5. Write notes on the following :—
 - (a) Fire Alarm System
 - (b) Automatic Sprinklers
 - (c) Alternate source of electric supply
6. Discuss the Bhopal Gas tragedy case.
7. Discuss the role of National Environment Policy, 2006 in managing disaster.
8. What is the role of Bihar State Pollution Control Board in containing air pollution ?
9. What is the importance of the Explosive Act, 1872 in Disaster Management ?
10. Justify the statement. "Illegal development of mines may lead to man-made disaster."

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EXAMINATION PROGRAMME-2022
M.A./M.Sc. Disaster Management, Part-II

Date	Papers	Time	Examination Centre
27.01.2023	Paper-IX	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
31.01.2023	Paper-X	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
02.02.2023	Paper-XI	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
04.02.2023	Paper-XII	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
06.02.2023	Paper-XIII	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
08.02.2023	Paper-XIV	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
10.02.2023	Paper-XV	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
14.02.2023	Paper-XVI (Project Viva)	From 12.00 Noon	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-II
PAPER-X

(Disaster Preparedness and Mitigation)

Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What is risk assessment ? Describe the process of risk assessment in detail.
2. What is capacity ? How is capacity measured ?
3. What is vulnerability ? What makes people vulnerable ?
4. Discuss the components of disaster preparedness in detail.
5. Write explanatory notes on any two of the following :—
 - (a) Disaster preparedness planning
 - (b) Role of media in disaster preparedness.
 - (c) Requirements of effective disaster response
6. Give a detailed account of the Bihar State Disaster Management Authority.
7. Discuss emergency water supply measures in urban areas in detail.
8. Describe disaster prepared plan for health services. Discuss the need for disaster management plan in hospitals.
9. Describe the requirements of effective mitigation of disasters in detail.
10. Write explanatory notes on :—
 - (a) National Cyclone Risk Mitigation Project
 - (b) Flood Management Programme

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NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-II
PAPER–XI

(Relief, Rehabilitation and Reconstruction)

Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Discuss the concept of reconstruction and rehabilitation in detail.
2. Describe in detail the inter-linkages between rehabilitation and development.
3. Write explanatory notes on:
 - (a) Information dissemination through electronic media
 - (b) Communication system for information dissemination
4. Discuss the impacts of natural hazards on physical infrastructure in detail.
5. Enumerate different types of infrastructure. Describe the significance of economic infrastructure.
6. What is psycho-therapy? How do psychologists deal with the victims of natural disasters?
7. Describe any case study of participative rehabilitation following some recent disaster in India.
8. How does the state government manage natural and man-made disasters?
9. Discuss the concept of post disaster livelihood recovery plan in detail with some examples.
10. Write notes on:
 - (a) Psycho-social support in disasters
 - (b) Inter-linkages between disaster recovery and development



NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-II
PAPER–XII

(Disaster Management in Bihar)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Describe the geographical profile of Bihar with special reference to land and population.
2. Describe the major man-made disasters in Bihar.
3. How can the state of Bihar be categorized into disaster-prone districts ?
4. Write explanatory notes on :—
 - (a) Flood in Bihar
 - (b) Heat and cold waves in Bihar
5. Discuss the hazard vulnerability of Bihar in detail.
6. What human activities can trigger human induced disasters ? Describe in detail.
7. What is significant about road safety in respect of youth ? Discuss in detail.
8. Describe the main functions of Bihar State Disaster Management Authority.
9. What are the measures being taken by state government for disaster management ?
10. Discuss the problem of arsenic and fluoride contamination in water resources of Bihar.

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NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-II
PAPER–XIII

(Role of International Agencies in Disaster Management)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Discuss the role of important international agencies in Disaster Management.
2. What are the Six Urgent Imperatives of the United Nations Secretary-Generals' Advisory Board on Water and Sanitation (UNSGAB) ? Describe in detail.
3. Justify the role of UNFPA in Disaster Management.
4. Discuss the role of UN in relation to assessments.
5. What is WHO ? What are the functions of WHO in disaster management ?
6. What is development assistance for refugees (DAR) ? Discuss the Rationale and aims of DAR Programmes.
7. Define monitoring. What are the essential elements of monitoring ?
8. What do you mean by Environmental Health ? Why is it so important ?
9. How can environment affect our health ? Discuss in detail.
10. Write explanatory notes on :—
 - (a) Participative learning and action
 - (b) Types of environmental emergencies



EXAMINATION PROGRAMME-2022
M.A./M.Sc. Disaster Management, Part-II

Date	Papers	Time	Examination Centre
27.01.2023	Paper–IX	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
31.01.2023	Paper–X	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
02.02.2023	Paper–XI	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
04.02.2023	Paper–XII	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
06.02.2023	Paper–XIII	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
08.02.2023	Paper–XIV	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
10.02.2023	Paper–XV	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
14.02.2023	Paper–XVI (Project Viva)	12.00 Noon to 3.00 PM	Nalanda Open University, Hall No.-1 12th Floor, Biscomaun Tower, Patna

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-II
PAPER–XIV
(Disaster and Sustainable Development)
Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Discuss the concept of sustainable development in detail, citing Indian examples.
2. Describe in brief the major environment laws in India.
3. Write an essay on disaster risk reduction.
4. Discuss the green initiatives of sustainable development adopted in India.
5. Describe the salient measures initiated for awareness and disaster preparedness for earthquake prone areas.
6. Describe the important drought prone areas of India. Discuss the impacts of droughts on human beings.
7. What is a snow avalanche ? Comment on its types and control strategies.
8. What are slums ? Give their characteristics and the causes for their growth.
9. Discuss the need for International Cooperation for 2030 Agenda for Sustainable Development Goals.
10. Write notes on any two of the following :–
 - (a) Seismic vulnerability of North Bihar.
 - (b) South-South cooperation Efforts
 - (c) Slum Renewal Policies

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M.A./M.Sc. Disaster Management, Part-II

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08.02.2023	Paper–XIV	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
10.02.2023	Paper–XV	10.30 AM to 1.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
14.02.2023	Paper–XVI (Project Viva)	12.00 Noon to 3.00 PM	Nalanda Open University, Hall No.-1 12th Floor, Biscomaun Tower, Patna

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-II
PAPER–XV

(State and Disaster Management with Special Reference to India)

Annual Examination, 2022

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What do you know about UNICEF ? Describe its promotion and fund raising activities in detail.
2. Give a detailed account of the national level disaster management in India.
3. What is Economic and Social Council ? Describe its activities in detail.
4. Write an essay on the institutional framework of disaster management in India.
5. Describe the functions of the National Flood Commission in detail.
6. Describe the various functions of Bihar State Disaster Management Authority. What are its roles and responsibilities ?
7. Write explanatory notes on:
(a) Home Disaster Management Plan
(b) Disaster management at the Block level
8. Discuss the role of Panchayats in planning and capacity building.
9. Discuss the role played by the Army during disaster management.
10. How do the Non-government Organizations (NGOs) assist in managing different types of disasters in India ? Explain.

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