

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER-I
(Approaches and Theories of Disasters)
Annual Examination, 2021

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. What do you mean by Disaster ? Describe different categories of disaster in detail.
2. Describe the historical development of disaster studies in detail.
3. Discuss in detail the traditional Indian Knowledge about disasters.
4. Write notes on any **Two** of the following :—
 - (a) Difference between natural and man-made disasters
 - (b) Early warning system of natural disasters
 - (c) Globalization and disaster studies
5. Discuss the 'Pressures' that result in disasters.
6. What is social capital ? Describe the relevance of Panchayati Raj institutions in disaster management.
7. Write short notes on the following :-
 - (a) Hazard
 - (b) Risk Assessment
 - (c) Risk Assessment
 - (d) Agricultural Disasters
8. Discuss the significance of impact analysis of disasters.
9. Describe how people behave in crisis.
10. Write in detail what you know about disaster myths.



EXAMINATION PROGRAMME-2021
M.A./M.Sc. Disaster Management, Part-I

Date	Papers	Time	Examination Centre
06.05.2022	Paper-I	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
07.05.2022	Paper-II	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
09.05.2022	Paper-III	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
11.05.2022	Paper-IV	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
13.05.2022	Paper-V	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
17.05.2022	Paper-VI	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
19.05.2022	Paper-VII	2.30 PM to 5.30 PM	Nalanda Open University, 2 nd Floor, Biscomaun Bhawan, Patna
23.05.2022	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, 2021

Time : 3 Hours

Full Marks : 80

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

1. What is Disaster Management ? Discuss the various elements of disaster management in detail.
2. Describe the activities related to prevention and mitigation in disaster management.
3. Write notes on any **Two** of the following :—
 - (a) Disaster Preparedness
 - (b) Community-based disaster management
 - (c) Environmental Degradation
4. Write an essay on risk assessment.
5. Give a detailed account of search and rescue operations during natural disasters.
6. Describe the various sources of funding meant for relief and rehabilitation in disaster-hit areas.
7. Write notes on the following :—
 - (a) Calamity Relief Fund
 - (b) Rapid Damage Assessment
8. What is reconstruction ? Discuss the reconstruction programme to be taken up following disasters.
9. Discuss the problem areas in disaster recovery.
10. How would you ensure economic and social rehabilitation of the disaster-affected people ?



NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER–III
(Natural and Human Induced Disasters)
Annual Examination, 2021

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Explain how environmental degradation causes disasters.
2. How are earthquakes caused ? Describe the 2004 Indian Ocean Tsunami.
3. How is forest fire caused ? Describe different types of forest fires.
4. What do you mean by desertification ? Describe the causes and consequences of desertification.
5. Write notes on any **Two** of the following :–
 - (a) Causes of landslides
 - (b) Impacts of floods
 - (c) Categories of droughts
6. Enumerate the important nuclear disasters in India. How can nuclear disasters be prevented ?
7. What are pollutants ? Differentiate between natural and man-made pollutants.
8. Write short notes on any **Two** of the following :–
 - (a) Industrial accidents
 - (b) Effects of soil pollution
 - (c) Biological disasters
9. Give an account of the climatic variations since the last period of glaciations.
10. What is an epidemic ? Give an account of its transmission in the light of Covid-19 pandemic.



M.A./M.Sc. Disaster Management, Part-I
Practical Counselling-cum-Examination Programme, 2021
for Paper–IV, VI & VII
Venue : Room No. 1, Nalanda Open University, 2nd Floor, Biscomaun Bhawan, Patna-800001.

<i>Practical Programme</i>		
<i>Date</i>	<i>Paper</i>	<i>Time</i>
22.05.2022	IV	9.00 AM to 12.00 Noon
22.05.2022	VI	12.00 Noon to 3.00 PM
22.05.2022	VII	3.00 PM to 6.00 PM

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

(Role of Remote Sensing & GIS in Disaster Management)
Annual Examination, 2021

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Discuss the principles of remote sensing. Describe the use of remote sensors in detail.
2. What is electromagnetic spectrum? Describe different types of remote sensors in detail.
3. Describe the advantages of remote sensing. Discuss its application in flood monitoring.
4. What is GIS? Describe its benefits in detail.
5. Describe the fundamentals of GPS and discuss its application in detail.
6. Write notes on any **two** of the following:
 - (a) Sensor platforms.
 - (b) Satellite imageries.
 - (c) GPS accuracy
7. What do you know about planning and mitigation in disaster management?
8. Discuss in detail the satellite data requirements for disaster management.
9. Discuss the application of remote sensing and GIS in landslide hazard assessment.
10. Write notes on any two of the following:
 - (a) Digital Elevation Model (DEM)
 - (b) GIS Data Types and structures
 - (c) Geo-informatics perspective in disaster management.



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22.05.2022	VII	3.00 PM to 6.00 PM

NALANDA OPEN UNIVERSITY
M.A./M.Sc. Disaster Management, Part-I
PAPER-V
(Finance and Insurance in Disaster Management)
Annual Examination, 2021

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Define insurance. Describe the nature and characteristics of insurance.
2. Discuss different kinds of insurance in detail.
3. Write notes on any two of the following :—
 - (a) Automobile insurance
 - (b) Rural insurance
 - (c) Mobile insurance
4. Present an overview of disaster management plan. Describe in brief the disaster management plan of India.
5. Describe the essential features of damage assessment.
6. Write notes on any two :—
 - (a) Insurance claim process
 - (b) Risk management products
 - (c) Tools of risk management
7. What is Dynamic Financial Analysis ? Discuss its objectives.
8. Discuss the role of finance in disaster management.
9. Discuss the role of private participation in disaster risk reduction.
10. How would you explain financing disaster risk in India ?



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

(Research Methods in Disaster Management)
Annual Examination, 2021

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Write in detail the basics of disaster research.
2. Describe different types of scientific investigations in details.
3. Write notes on the following :—
 - (a) Random sampling
 - (b) Snowball sampling
 - (c) Cluster sampling
4. What do you mean by tabulation of data ? Describe in detail.
5. Discuss the importance of questionnaire and interview in data collection.
6. Describe different types of data measurement scales in detail.
7. Describe the types of probability sampling techniques in detail.
8. Give a detailed account of sampling design in research methodology.
9. What preparations and planning are required in writing a report ?
10. Write notes on any **Two** of the following :—
 - (a) Report writing format
 - (b) Literature review
 - (c) Data collection tools



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

(Disaster in India)
Annual Examination, 2021

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Describe the landslide-prone areas of India in detail.
2. What are floods ? Describe the major flood-prone areas in the country.
3. Write notes on any **Two** of the following :—
 - (a) Tsunami
 - (b) Snow Avalanche
 - (c) Sea level Rise
4. Discuss the phenomenon of seismicity in western Himalayas.
5. Why do landslides occur in Western Ghats ? Discuss in detail.
6. Give an account of the cyclones originating in the Arabian Sea.
7. Write notes on any **Two** of the following :—
 - (a) Flood in North Bihar
 - (b) Warmer and wetter winters
 - (c) Chemical disasters
8. What are the major causes of rail accidents ? Describe some major rail accidents in India.
9. Describe some prominent industrial disasters in India.
10. Discuss the socio-economic disasters caused by terrorism and violence.



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

(Disaster Management in India)
Annual Examination, 2021

Time : 3 Hours

Full Marks : 80

Answer any Five Questions.
All questions carry equal marks.

1. Discuss the roles and responsibilities of private sector and professional organisations in disaster management.
2. Describe the responsibilities of educational institutions in disaster management.
3. Write explanatory notes on the following :—
 - (a) Role of media in disaster management
 - (b) Integrated Data Resource Network
4. Describe the organizational structure and functions of National Disaster Management Authority in detail.
5. Describe in detail the constitution and role of National Disaster Response Force.
6. Describe the Bihar State Disaster Management Plan in detail. Also add a note on the district disaster management plan.
7. Describe the various steps involved in preparation and process of community-based disaster management plan for community resilience.
8. Write notes on any two of the following :
 - (a) Community based disaster preparedness plan
 - (b) District Crisis Management Group
 - (c) National Fire Service College
9. Describe the role of Army in disaster management. Also add a note on the challenges faced by the Army in disaster risk reduction activities.
10. Discuss the role of Non-governmental organisations (NGOs) in disaster management activities in detail.



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