

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI EXAMINATION – WINTER 2025

Subject Code: 3160622

Date: 19-11-2025

Subject Name: Disaster Management

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Define the terms : Disaster and Hazard	03
	(b) What is Vulnerability? Explain briefly, types of Vulnerability.	04
	(c) What is Disaster Management? Explain key stages of Disaster Management.	07
Q.2	(a) Write a short note on Man-made disasters.	03
	(b) What is climate change? Explain briefly, causes of Climate change.	04
	(c) Explain various phases of Disaster Management Cycle with neat sketch.	07
	OR	
	(c) Explain Disaster Risk Analysis process	07
Q.3	(a) Enlist safety measures adopted by Indian railways to avoid collision of trains.	03
	(b) Enlist the state level institutions for disaster management and explain any one in detail.	04
	(c) Discuss briefly, the initiatives taken by National Disaster Management Authority for capacity development in India.	07
	OR	
Q.3	(a) Which are the causes of floods?	03
	(b) Enlist various possible disasters related to water, climate, and geological issues.	04
	(c) Discuss the role of Civil Society in Disaster Management.	07
Q.4	(a) Give checklist for Disaster preparedness by state/district.	03
	(b) Describe Incident Response System (IRS).	04
	(c) Describe role of Technology in Disaster Management.	07
	OR	
Q.4	(a) Enlist preventive measures for Road accidents in India.	03
	(b) Write short note on : Early warning system (EWS).	04
	(c) Describe briefly the existing Hazard forecasting and Warning Networks established in the country.	07

- Q.5** (a) Describe the role of GPS in management of disaster. **03**
(b) Enlist various formats for the training programmes by National Institute of Disaster Management (NIDM). Discuss any one in detail. **04**
(c) Enlist various Communication modes available for Disaster forecasting and warning. Explain any two in detail. **07**

OR

- Q.5** (a) What is role of GIS in disaster management? **03**
(b) Write a short note on Non-structural mitigation measures for disaster management. **04**
(c) Discuss briefly the contributions of National Disaster Management Authority for Safety and Training programmes. **07**

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2024

Subject Code:3160622

Date:28-11-2024

Subject Name:Disaster Management

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) Differentiate: Natural Disaster & Man-made Disaster. **03**
(b) Define the terms: Hazard, Vulnerability, Capacity and Risk. **04**
(c) Explain in detail about different phases of Disaster management. **07**
- Q.2** (a) Discuss about disaster awareness. **03**
(b) Give classification of disasters with examples. **04**
(c) Describe structural mitigation for disaster management. **07**
- OR**
- (c) Enlist the technological disasters. Discuss any one such disaster **07**
- Q.3** (a) Describe the application of remote sensing for the disaster management. **03**
(b) Give the classification of various floods. **04**
(c) Explain the Earthquake and also give various steps for prevention and protection from Earthquake. **07**
- OR**
- Q.3** (a) Describe the application GIS for the disaster management. **03**
(b) Explain general safety precautions during and after flood disaster. **04**
(c) Enlist and explain various considerations with reference to disaster safe design and construction for Earthquake **07**
- Q.4** (a) Enlist various types of Landslides. **03**
(b) Explain effect of climate change on disaster. **04**
(c) Explain the cyclone with its formation process. **07**
- OR**
- Q.4** (a) What are the important causes of accidents in Mining? **03**
(b) Discuss about Yokohama strategy. **04**
(c) Explain do's and don'ts during nuclear emergency. **07**
- Q.5** (a) Explain lessons learnt from previous disasters in India **03**
(b) What is the role of National Executive Committee (NEC) at state level and at district level? **04**
(c) Explain the features of the Incident Response System. **07**
- OR**
- Q.5** (a) Discuss the role of Information Technology in case of disaster. **03**
(b) Write short note on National Disaster Management Policy **04**
(c) Explain the role and functions of a disaster communication system **07**

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2023

Subject Code:3160622

Date:07-12-2023

Subject Name:Disaster Management

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q-1	(a) Describe the phases of disaster management cycle. (b) Write a detailed note about vulnerability, categorizing it. (c) Describe structural mitigation for disaster management.	03 04 07
Q-2	(a) Write note on use of GPS in disaster. (b) Explain early warning system for landslides. (c) Explain Contribution of National Disaster Management Authority for safety during Disaster.	03 04 07
	OR	
	(c) What you as an individual, society and a nation can avert ill effect of climate change?	07
Q-3	(a) Write short note about International Decade for Natural Disaster Reduction. (b) Explain general safety precautions during and after flood disaster. (c) Explain any three mega disasters of India.	03 04 07
	OR	
Q-3	(a) Write short note about National Disaster Management Authority. (b) Explain features of Incident Response System. (c) Explain Yokohama Strategy for nonviolent world.	03 04 07
Q-4	(a) Elaborate lesson from the Uttarakhand land slide Tragedy. (b) Explain do's and don'ts during nuclear emergency. (c) Suppose you are appointed as an in charge of disaster management cell of a district which is categorized under zone V for earthquake. Write in brief your plan of action.	03 04 07
	OR	
Q-4	(a) Discuss the safety measures to avoid the train accidents. (b) Explain prevention and mitigation of avalanche. (c) Write short note on: Consequences of war like situation in middle east.	03 04 07
Q-5	(a) Explain about global disaster trends. (b) Explain different features of land use planning. (c) Describe how you will use remote sensing and GIS technology for volcanic eruption and cyclone disaster.	03 04 07

OR

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| Q-5 | (a) Explain the governing elements of emergency communication. | 03 |
| | (b) Explain role of National Executive Committee at state and district level. | 04 |
| | (c) Describe use of geospatial techniques in case of earthquake and landslide disaster. | 07 |
