

# GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI EXAMINATION – SUMMER 2025

**Subject Code: 3160622**

**Date: 26-05-2025**

**Subject Name: Disaster Management**

**Time: 10:30 AM TO 01:00 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) Write a short note on paradigm shift in disaster management in India. **03**  
(b) Define the term Disaster and describe various phases of disaster. **04**  
(c) Explain in detail about Yokohama strategy. **07**

- Q.2** (a) Describe the role of development regulations in disaster management. **03**  
(b) Define the terms: Hazard, Vulnerability, Risk and Capacity. **04**  
(c) Explain the safety measures (Do's and Don'ts) with respect to before, during and after an earthquake disaster. **07**

**OR**

- (c) What are the safety measures that can be taken during floods? Also write down the methods of controlling floods. **07**

- Q.3** (a) Write a brief note on Tsunami Disaster. **03**  
(b) Write short note on national disaster management policy. **04**  
(c) Explain various considerations for disaster safe design and construction with reference to earthquake. **07**

**OR**

- Q.3** (a) Discuss the safety measures to avoid the road accidents. **03**  
(b) Write a note on disaster management cycle framework. **04**  
(c) Enlist the technological disasters. Discuss any one such disaster. **07**
- Q.4** (a) Write the major features of Emergency Operation Centre (EOC). **03**  
(b) Explain in detail the Early Warning System in disaster communication. **04**  
(c) Discuss the role of non-government agencies in case of disaster. **07**

**OR**

- Q.4** (a) Discuss about Biological Disasters. **03**  
(b) Describe the role of GPS in management of Disaster. **04**  
(c) Discuss about the Disaster Management Act 2005. **07**

- Q.5** (a) Discuss the essential features of damage assessment. **03**  
(b) Explain about search and rescue activity and its objectives. **04**  
(c) Discuss briefly about mega disasters of India and lessons learnt from them. **07**

**OR**

- Q.5** (a) Describe the mitigation measures for any two Hydro-Meteorological Disaster. **03**  
(b) State the role of NDMA and SDRF in disaster management. **04**  
(c) Discuss about "Risk Assessment" and "Capacity Development" with respect to disasters. **07**

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**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2024****Subject Code:3160622****Date:20-05-2024****Subject Name:Disaster Management****Time:10:30 AM TO 01:00 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.

		<b>MARKS</b>
<b>Q.1</b>	<b>(a)</b> Classify different types of disaster.	<b>03</b>
	<b>(b)</b> Define the term Disaster and describe Disaster management Cycle.	<b>04</b>
	<b>(c)</b> Describe natural disasters and man-made disasters.	<b>07</b>
<b>Q.2</b>	<b>(a)</b> Give a comprehensive list of various types of disasters.	<b>03</b>
	<b>(b)</b> How development may cause disasters?	<b>04</b>
	<b>(c)</b> Which are the effects of earthquake?	<b>07</b>
<b>OR</b>		
	<b>(c)</b> What are the main objectives of YOKOHAMA strategy? Explain in brief.	<b>07</b>
<b>Q.3</b>	<b>(a)</b> Which are the causes of floods?	<b>03</b>
	<b>(b)</b> Discuss effects of Landslides.	<b>04</b>
	<b>(c)</b> What is tsunami? What are its causes?	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	<b>(a)</b> Describe the role of NDMA, NDRF and SDRF for Disaster Management.	<b>03</b>
	<b>(b)</b> Discuss the safety measures to avoid road accidents.	<b>04</b>
	<b>(c)</b> Enlist the technological disasters. Discuss any one such disaster.	<b>07</b>
<b>Q.4</b>	<b>(a)</b> Write short on: IDNDR	<b>03</b>
	<b>(b)</b> Write a note on Disaster profile of India.	<b>04</b>
	<b>(c)</b> Discuss about the Disaster Management Act 2005.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	<b>(a)</b> Explain prevention and mitigation of disaster.	<b>03</b>
	<b>(b)</b> Explain Early Warning System (EWS).	<b>04</b>
	<b>(c)</b> What is climate change? Explain causes of climate change?	<b>07</b>
<b>Q.5</b>	<b>(a)</b> Describe the role of GPS in management of disaster.	<b>03</b>
	<b>(b)</b> What is role of GIS in disaster management?	<b>04</b>
	<b>(c)</b> Discuss in brief about mega disasters of India and lessons learnt from them.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	<b>(a)</b> Enlist various losses due to flood and earthquake.	<b>03</b>
	<b>(b)</b> What is the significance of Land Use Planning and Development Regulations in Disaster Management?	<b>04</b>
	<b>(c)</b> Explain in detail disaster safe designs and constructions.	<b>07</b>

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code: 3160622****Date:10-07-2023****Subject Name: Disaster Management****Time:10:30 AM TO 01:00 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) What is disaster management? **03**  
(b) Give vulnerability profile of India. **04**  
(c) Describe natural disasters and man-made disasters. **07**
- Q.2** (a) How development may cause disasters? **03**  
(b) Give a comprehensive list of various types of disasters. **04**  
(c) Write short note on Geological disasters. **07**

**OR**

- (c) Which are the effects of earthquake? **07**
- Q.3** (a) Explain different types of the Landslides. **03**  
(b) Discuss environmental impact of mining. **04**  
(c) What is tsunami? What are its causes? **07**

**OR**

- Q.3** (a) Which are the causes of floods? **03**  
(b) Write short on: Method of flood control. **04**  
(c) What is cyclone? What are its characteristics? **07**
- Q.4** (a) Give features of disaster management cycle. **03**  
(b) Explain Early Warning System (EWS). **04**  
(c) What is climate change? Explain causes of climate change? **07**

**OR**

- Q.4** (a) Write short on : IDNDR **03**  
(b) Discuss major issues involved in disaster preparation. **04**  
(c) Explain earthquake resistant design and construction. **07**

- Q.5** (a) Enlist the Safety and training Institutions in India for disaster management. **03**
- (b) What is role of GIS in disaster management? **04**
- (c) Explain in detail structural mitigation for disaster management. **07**

**OR**

- Q.5** (a) Describe the role of GPS in management of disaster. **03**
- (b) Discuss the safety measures to avoid the train accidents. **04**
- (c) Name the technological disasters. Discuss any one. **07**

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