

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
<b>Q-1</b>	(a) Describe the phases of disaster management cycle.	<b>03</b>
	(b) Write a detailed note about vulnerability, categorizing it.	<b>04</b>
	(c) Describe structural mitigation for disaster management.	<b>07</b>
<b>Q-2</b>	(a) Write note on use of GPS in disaster.	<b>03</b>
	(b) Explain early warning system for landslides.	<b>04</b>
	(c) Explain Contribution of National Disaster Management Authority for safety during Disaster.	<b>07</b>
	<b>OR</b>	
	(c) What you as an individual, society and a nation can avert ill effect of climate change?	<b>07</b>
<b>Q-3</b>	(a) Write short not about International Decade for Natural Disaster Reduction.	<b>03</b>
	(b) Explain general safety precautions during and after flood disaster.	<b>04</b>
	(c) Explain any three mega disasters of India.	<b>07</b>
	<b>OR</b>	
<b>Q-3</b>	(a) Write short note about National Disaster Management Authority.	<b>03</b>
	(b) Explain features of Incident Response System.	<b>04</b>
	(c) Explain Yokohama Strategy for nonviolent world.	<b>07</b>
<b>Q-4</b>	(a) Elaborate lesson from the Uttarakhand land slide Tragedy.	<b>03</b>
	(b) Explain do's and don'ts during nuclear emergency.	<b>04</b>
	(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.	<b>07</b>
	<b>OR</b>	
<b>Q-4</b>	(a) Discuss the safety measures to avoid the train accidents.	<b>03</b>
	(b) Explain prevention and mitigation of avalanche.	<b>04</b>
	(c) Write short note on: Consequences of war like situation in middle east.	<b>07</b>
<b>Q-5</b>	(a) Explain about global disaster trends.	<b>03</b>
	(b) Explain different features of land use planning.	<b>04</b>
	(c) Describe how you will use remote sensing and GIS technology for volcanic eruption and cyclone disaster.	<b>07</b>

**OR**

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

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