

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V(NEW) EXAMINATION – SUMMER 2022****Subject Code:2150003****Date:04/06/2022****Subject Name:Institute Elective - Diaster 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.

		<b>MARKS</b>
<b>Q.1</b>	(a) Define following terms-(i) Disaster (ii) Risk (iii) Vulnerability.	<b>03</b>
	(b) Explain Methodological Approach used in GIS.	<b>04</b>
	(c) Explain Fundamental steps for Disaster Management in Detail.	<b>07</b>
<b>Q.2</b>	(a) What are the safety tips for Lightning?	<b>03</b>
	(b) Mention some do's and don'ts in case of Heat Wave.	<b>04</b>
	(c) Discuss building collapse and Prevention & Remedies of it.	<b>07</b>
	<b>OR</b>	
	(c) How will you carry out Rescue, Relief and Rehabilitation work in case of Major Earthquake?	<b>07</b>
<b>Q.3</b>	(a) What is Risk Assessment and Risk Mapping?	<b>03</b>
	(b) What are the Objectives of IDNDR?	<b>04</b>
	(c) Explain various tools for conducting Disaster risk assessments at both National & State levels.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) How you will Carry out Search & Rescue of Disaster Survivors?	<b>03</b>
	(b) Explain Basic Disaster Management cycle.	<b>04</b>
	(c) Explain structure and role of NDMA during any type of Disaster.	<b>07</b>
<b>Q.4</b>	(a) Explain Role of NDRF in any type of disaster occurred in country.	<b>03</b>
	(b) Explain Role of Central Government in any type of disaster occurred in country	<b>04</b>
	(c) What lessons still India has not learnt from past disaster occurred in country?	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Explain Role of CRPF in any type of disaster occurred in country.	<b>03</b>
	(b) Explain Role of State Government in any type of disaster occurred in country.	<b>04</b>
	(c) What lessons India has learnt from past disaster occurred in country?	<b>07</b>
<b>Q.5</b>	(a) Give advantages & disadvantages of using Remote sensing in disaster management.	<b>03</b>
	(b) Discuss use of Geospatial techniques in case of Earthquake disaster or landslide.	<b>04</b>
	(c) Write short Note on Satellite & Navigation system used in any disaster occurred in country.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) What are the advantages of GIS using in disaster management?	<b>03</b>
	(b) How GIS and Remote sensing can be used in case of Draught & Flood?	<b>04</b>
	(c) Write short note on Communication Radio, Ham Radio & V-SAT during disaster.	<b>07</b>