

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2021****Subject Code:3150913****Date:07/09/2021****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.

	Marks
<b>Q.1</b>	
(a) What do you mean by the Risk, Vulnerability and Capacity?	<b>03</b>
(b) Define Hazard. Describe Classification of Hazard.	<b>04</b>
(c) Explain concept of Disaster management. Describe aims and importance of Disaster management.	<b>07</b>
<b>Q.2</b>	
(a) Enlist S & T institutions for disaster management in India. Explain about any one S & T Institutions for Disaster Management in India.	<b>03</b>
(b) Explain different phases of Disaster management.	<b>04</b>
(c) Explain Earthquake as Geological disaster. (causes, classification magnitude base & distance base, Nature, Consequence, Prevention and Protection against earth quake)	<b>07</b>
<b>OR</b>	
(c) Explain Flood as Hydro-meteorological Disaster. ( causes, types, consequences, prevention and protection against flood, Flood management )	<b>07</b>
<b>Q.3</b>	
(a) Describe the application of remote sensing for the disaster management.	<b>03</b>
(b) Describe the application GIS for the disaster management.	<b>04</b>
(c) Explain Epidemics as Biological disaster (causes, classification, Consequence, Prevention and Protection against Epidemics)	<b>07</b>
<b>OR</b>	
<b>Q.3</b>	
(a) Describe the role of GPS in management of Disaster.	<b>03</b>
(b) Explain effect of climate change on disaster.	<b>04</b>
(c) Explain Chemical disaster as Technological disaster. ( causes, impact, Prevention and Protection against chemical disaster)	<b>07</b>
<b>Q.4</b>	
(a) List outs Latest Technologies used for disaster management.	<b>03</b>
(b) How can we make buildings and homes resistant to Hurricanes?	<b>04</b>
(c) Explain Building collapse as Manmade disaster. (causes, Consequence, Prevention and Protection against building collapse).	<b>07</b>
<b>OR</b>	
<b>Q.4</b>	
(a) Make an overview of recent trends in disaster management.	<b>03</b>
(b) Write a short note on paradigm shift in disaster management in India.	<b>04</b>
(c) Discuss about the Disaster Management Act 2005.	<b>07</b>
<b>Q.5</b>	
(a) Explain about search and rescue activity and its objectives.	<b>03</b>
(b) Explain Relief and Rehabilitation approach for disaster management.	<b>04</b>
(c) Discuss about Yokohama strategy.	<b>07</b>
<b>OR</b>	
<b>Q.5</b>	
(a) Discuss about disaster awareness.	<b>03</b>
(b) Explain lessons learnt from previous disasters in India	<b>04</b>
(c) State and Explain the role of NDMA, NEC, NIDM, NDRFF, AF, SDRF in disaster management.	<b>07</b>