GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER–V (NEW) EXAMINATION – WINTER 2020

Subject Code:2150003   **Date:27/01/2021**

Subject Name:Institute Elective - Disaster Management

Time:10:30 AM TO 12:30 PM   **Total Marks: 56**

Instructions:
1. **Attempt any FOUR questions out of EIGHT questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Define: Hazard, Vulnerability, Risk and Capacity?	03
	(b)	Define the term Disaster and describe Disaster management Cycle.	04
	(c)	Explain role of an Engineer to deal with Man-made disaster with examples.	07
Q.2	**(a)**	Explain Tsunami Disaster.	03
	(b)	Describe the steps in Preparedness for Flood Disaster.	04
	(c)	Explain: 'COVID-19' – a Biological disaster, its effects and methods to control.	07
Q.3	**(a)**	Describe the measurement technique for magnitude of earthquake.	03
	(b)	Write short note on National Disaster Management Policy.	04
	(c)	How do you carry out Mapping of prominent disaster prone area? Also discuss the factors affecting such mapping.	07
Q.4	**(a)**	Discuss effects of Landslides.	03
	(b)	How Economic developments increase the disaster risk?	04
	(c)	Describe about early warning system. Also discuss about elements of early warning system.	07
Q.5	**(a)**	Explain Yokohama strategy.	03
	(b)	Explain about role of Geo-informatics in disaster management.	04
	(c)	Explain in detail Disaster Communication System.	07
Q.6	**(a)**	Explain typical structure of District level disaster management authority.	03
	(b)	How NGOs participate in disaster management.	04
	(c)	Explain in detail disaster safe designs and constructions.	07
Q.7	**(a)**	Explain International Decade for National Disaster Reduction (IDNDR).	03
	(b)	What is the significance of Land Use Planning and Development Regulations in Disaster Management?	04
	(c)	Write the roles of NDMA, NDRF and SDRF regards to Disaster management in India.	07
Q.8	**(a)**	What is the role of GIS in Disaster Management?	03
	(b)	Discuss in brief the Disaster Management Act 2005.	04
	(c)	Explain about role of Government (local, state and national) agencies in disaster management with suitable example.	07

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