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Seat No.:	Enrolment No

## GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-II • EXAMINATION - SUMMER - 2017

Subject Code: 2722014 Date: 31/05/2017

**Subject Name: Disaster Management and Mitigation** 

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.

<b>Q.1</b>	(a)	Define: (a) Disaster management (b) Hazard (c) Emergency (d) Disaster (e) Vulnerability (f) Risk (g) Mitigation	07
	<b>(b)</b>	Why do you think it is important for education and public awareness to be carried out at the community level?	07
Q.2	(a)	What are the minimum requirements of a standard emergency kit?	07
	<b>(b)</b>	What is GIS? Explain its technique.	07
		OR	
	<b>(b)</b>	Explain why the community-based approach needs to take into consideration the availability of resources.	07
Q.3	(a)	List some of the practical things that you would do to secure your house against the threat of hurricane/ tornados.	07
	<b>(b)</b>	Explain (i) Types of remote sensing (ii) Data acquisition technique	07
		OR	
Q.3	(a)	Write down the various Disaster Mitigation Strategies.	07
	<b>(b)</b>	Development can either increase or decrease the vulnerability of the community. True or False? Justify.	07
Q.4	(a)	Explain in detail the rehabilitation, reconstruction and recovery after the Bhuj Earthquake in Gujarat.	07
	<b>(b)</b>	Briefly describe the roles and responsibilities of disaster managers and community workers in education and public awareness.	07
		OR	
<b>Q.4</b>	(a)	Write a note on "Emerging trends in disaster mitigation"	<b>07</b>
	<b>(b)</b>	Once a threat has been identified, who do you contact, and in what order? This includes law enforcement, public health, other school officials, and the superintendent's office.	07
Q.5	(a)	Write the basic concepts of risk assessment and vulnerability analysis.	07
<b>~</b>	(b)	Why is crop diversification recommended as a disaster preparedness method?	07
	()	OR	
Q.5	(a)	Identify and briefly discuss one adverse impact that a particular disaster has left behind on your lifestyle and environment.	07
	<b>(b)</b>	Write a short essay on risk factors common in disaster situation and how these can be prevented and or treated.	07