Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016			
Subj	ect C	Code: 2722014 Date: 02/06/2016	
Subject Name: Disaster Management and Mitigation			
Time:10:30 am to 01:00 pm Total Marks: 70			
Instructions:			
1. Attempt all questions.			
		Make suitable assumptions wherever necessary.	
	3. 1	Figures to the right indicate full marks.	
Q.1	(a)	Explain the following terms (a) Disaster management (b) Hazard (c) Emergency	07
	(L)	(d) Disaster (e) Vulnerability (f) Risk (g) Capacity building	07
	(b)	Explain how public awareness is helpful in risk reduction.	07
Q.2	(a)	Explain the importance of preparedness in disaster management.	07
Q.2	(a) (b)	Categorize the stakeholders involved in the Community-based Approach according to	07
	(0)	their roles and responsibilities.	07
		OR	
	(b)	Explain how GIS is utilized within all phases of the disaster management cycle.	07
Q.3	(a)	Elaborate on reconstruction strategy post-disaster stage. Explain with a case example.	07
	(b)	Give examples of modern methods of disaster response.	07
		OR	
Q.3	(a)	Write down the various Disaster Mitigation Strategies.	07
	(b)	Define rehabilitation and reconstruction and explain various activities of disaster recovery.	07
Q.4	(a)	Explain how GPS technology can be useful in disaster management.	07
	(b)	Identify how the Emergency Management Systems (EMS) assists in hazard materials	07
		management, emergency medical services, and response and recovery operations.	
0.4	(a)	OR Write a note on "Emerging trends in disaster mitigation"	07
Q.4	(a)	Write a note on "Emerging trends in disaster mitigation"	07
	(b)	Explain briefly about the human behavior and response management during relief	07
		measures.	
Q.5	(a)	Write the basic concepts of risk assessment and vulnerability analysis.	07
Q.5	(b)	Write Short note on: Damage assessment of natural and manmade disasters.	07
		OR	0.
Q.5	(a)	Explain how planning and design of infrastructure should take into account the	07
U .5	()	vulnerability of the communities.	
	(b)	Distinguish between passive and active Remote Sensing System.	07