Enrol	ment	No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-Vth Examination December 2010

Subject code: 150606

Subject Name: Disaster Assessment using Geospatial Techniques

Date:	21 /12	/2010 Time: 03.00 pm - 05.30 pm Total Marks: 70	1
	1. Att 2. Ma	IS: tempt all questions. the suitable assumptions wherever necessary. gures to the right indicate full marks.	
Q.1	(a) (b)	Explain basic concepts and principles of remote sensing. Explain different components of GIS.	07 07
Q.2	(a) (b)	What are the atmospheric windows? Write their significance. Explain air borne and space borne sensors.	07 07
	(b)	What do you understand by 'map'? Differentiate between topographic and thematic map.	07
Q.3	(a) (b)	What do you understand by spectral signature? Explain 'vector data model' and 'raster data model' in GIS? OR	07 07
Q.3	(a) (b)	Explain different resolutions with their significance. Explain functioning and basic working principle of GPS.	07 07
Q.4	(a) (b)	Explain the systems of image classification in remote sensing. Describe imaging with microwave radar. OR	07 07
Q.4	(a) (b)	Explain Remote sensing and GIS synergy. Explain Synthetic Aperture Radar (SAR).	07 07
Q.5	(a) (b)	Explain the role of GIS and RS in assessing the impact of floods. Write salient features of GIS tool GeoMedia or ArcMap.	07 07
Q.5	(a)	OR How can Geospatial assessment techniques minimize the impact of natural disasters?	07

(b) Write salient features of remote sensing tool ENVI or ERDAS. 07
