GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-V Examination-Nov/Dec.-2011

Subject code: 150606   **Date: 03/12/2011**
Subject Name: Disaster Assessment using Geospatial Techniques
                                        Time: 2.30 pm -5.00 pm
                                        Total marks: 70

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	What are the seven elements in remote sensing?	07
	(b)	Explain platforms of remote sensing.	07
Q.2	**(a)**	Explain image classification and analysis.	07
	(b)	Explain elements of visual interpretation.	07
		OR	
	(b)	What do you understand by image transformation and image enhancement?	07
Q.3	**(a)**	Explain factors affecting microwave measurements.	07
	(b)	.Explain in brief GPS system with its application.	07
		OR	
Q.3	**(a)**	Explain basic working principles of GPS measurements.	07
	(b)	Describe the process of radar remote sensing.	07
Q.4	**(a)**	Why is GIS defined as a knowledge hub?	07
	(b)	What are raster and vector? Write the basic differences between raster and vector.	07
		OR	
Q.4	**(a)**	What are the applications of GIS?	07
	(b)	Explain the function of DBMS.	07
Q.5	**(a)**	Explain basics of relief and rescue operation by disaster assessment.	07
	(b)	Explain remote sensing and GIS synergy.	07
		OR	
Q.5	**(a)**	Explain the different natural disasters and their effects in brief.	07
	(b)	Explain the major data sources of GIS.	07

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