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

Subject code: 150606Date: 03/12/2011Subject Name: Disaster Assessment using Geospatial Techniques Time: 2.30 pm -5.00 pm Total marks: 70			
Instructions:			
		Attempt all questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
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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
Q.2	(a) (b)	Explain elements of visual interpretation.	07
		OR G	
	(b)	What do you understand by image transformation and image	07
		enhancement?	
Q.3	(a)	Explain factors affecting microwave measurements.	07
2.0	(u) (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
~ ··	(u) (b)	What are raster and vector? Write the basic differences between	07
		raster and vector	
OR			
Q.4	(a) (b)	What are the applications of GIS?	07 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
0 -		OR	~ -
Q.5	(a) (b)	Explain the different natural disasters and their effects in brief.	07 07
	(b)	Explain the major data sources of GIS.	07

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