GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V • EXAMINATION - WINTER • 2014

Subject Code: 150606Date: 08-12-2014Subject Name: Disaster Assessment using Geospatial TechniquesTime: 10.30 am - 01.00 pmInstructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a)	How can geospatial assessment technique be helpful for minimizing the impact of an earthquake?	07
	(b)	Explain the role of GIS and RS in assessing the impact of floods.	07
Q.2	(a) (b)	Explain basic concept of Metadata? Mention its importance in GIS in detail. Explain the function of DBMS.	07 07
		OR C	
	(b)	Describe imaging with microwave radar.	07
Q.3	(a)	Explain different resolutions with their significance.	07
	(b)	Explain 'vector data model' and 'raster data model' in GIS?	07
01	(-)	OR Vitet de very man hu image anhancement in di Golimera ana consin e 2 Write in	07
Q.3	(a)	What do you mean by image enhancement in digital image processing? Write in detail about contrast enhancement	07
	(b)	Explain how adjusting brightness and contrast helps in revealing more details	07
	(0)	in an image.	07
0.4	(a)	Explain Synthetic Aperture Radar (SAR).	07
Q.4	(a) (b)	Write short notes on Graphic representation of GIS data	07 07
	(U)	2. GPS receivers to apple representation of GIS data	07
Q.4	(a)	Why is it necessary to find out errors of GPS? Explain atmospheric error and	07
		Satellite clock error in detail.	
	(b)	Enlist the various spatial and non spatial data that need to be collected for GIS	07
		analysis for land slide studies in a hilly area and for damage caused due	
		to floods. Explain how each parameter is helpful in doing the study	
Q.5	(a)	What do you understand by 'map'? Differentiate between topographic and	07
		thematic map.	
	(b)	What is Sensor? Describe Air Born and Space Born sensors.	07
0.7	()	OR Circa a brief idea about CSLV and DSLV	07
Q.5	(a) (b)	Give a brief idea about GSLV and PSLV.	07 07
	(b)	Explain platforms of remote sensing.	07
