Seat No.: Enforment No	Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION - WINTER 2015

Sul Tir	bject ne: 1 ructio 1. 2.	Attempt all questions.	
Q.1	(a)	How geoinformatics is useful in real time simulation modeling? Justify it with an example.	07
Q.2	(b)(a)(b)	Explain trilateration method to know the position of user through GPS. Discuss limitations of aerial photography vis-à-vis remote sensing. Why raster data structures are considered good for natural resources management?	07 07 07
	a \	OR	^ -
	(b)	Why vector data structures are considered good for network analysis?	07
Q.3	(a) (b)	State various resolutions and their importance in remote sensing. Explain following vector operations with diagrams. i) Union ii) Intersect iii) Overlay iv) Clip	07 07
		OR	
Q.3	(a) (b)	What is multi-spectral remote sensing? Write advantages of it. Explain following raster operations with diagrams. i) Filtering ii) Buffering iii) Overlay iv) Identification of zones	07 07
Q.4	(a) (b)	Enlist various map projections and explain any one of them. Define DEM. Mention the importance of interpolation techniques here. OR	07 07
Q.4	(a) (b)	Enlist various coordinate systems and explain any one of them. What is registration of an image in GIS? Write the procedure.	07 07
Q.5	(a) (b)	Write progress and current status of Indian remote sensing scenario. Write step by step procedure for supervised image classification. OR	07 07
Q.5	(a) (b)	Show the importance of micro waves. Describe imaging with microwave radar. Show application of remote sensing in urban planning and management.	07 07

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