Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION - WINTER • 2014

Sul Tir	bject ne: 1 cructio 1. 2.	Code: 2650013 Name: Geographical Information System 0:30 am - 01:00 pm Total Marks: 70 ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain Various Geographic Data Collection methods. Describe UTM grid system.	0'. 0'.
Q.2	(a)(b)	Explain Entity error with reference to island pseudo node, dangling node, sliver polygon, weird polygon. Write a note on remote sensing as a special case of raster data input. OR	0'
	(b)	Explain various methods of raster input.	0′
Q.3	(a) (b)	Explain high level area object in context to types of regions with its diagram. How will you measure complexity of network with the help of gamma index and alpha index?	0': 0':
Q.3	(a) (b)	OR Explain how you will measure polygon shape with context to Euler number and convexity index. Explain cartographic model with its types.	0'
Q.4	(a) (b)	How is reclassification performed in raster as well as in vector data? Explain various methods of non linear interpolation. OR	0'. 0'.
Q.4	(a) (b)	How will you find directionality of linear and areal objects? Explain various types vector overlay.	0'. 0'.
Q.5	(a) (b)	Explain cartographic output. How will you carry out user requirements with JAD? OR	0′. 0′.
Q.5	(a) (b)	Explain Map Design Controls. Write steps involves in conceptual data modeling.	0'. 0'.
