Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION – SUMMER • 2015

Date: 11-05-2015

Time: 02:30 pm to 05:00 pm Total Marks: 70

Instructions:

1. Attempt all questions.

Subject Code: 650013

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Λ1	(a)	What is CIC? Explain the Method for representing goodraphic anges	07
Q.1	(a)	What is GIS? Explain the Method for representing geographic space.	
	(b)	Write short note on Grid System. Explain different types with example.	07
Q.2	(a)	What is spatial measurement level? Explain different type of it with example.	07
	(b)	Explain Metadata and Metadata standard with all its categories.	07
		OR	
	(b)	Write short note on Nonlinear interpolation in detail.	07
Q.3	(a)	Explain DB structures for managing data.	07
	(b)	What is alpha index and beta index? Explain Gravity Model with suitable example.	07
		OR	
Q.3	(a)	Explain Higher level Line object with its different types of network.	07
	(b)	How to calculate Perimeter and Length of Polygons?	07
Q.4	(a)	Explain High pass filter and low pass filter.	07
	(b)	Explain different types of buffers of reclassification process.	07
		OR	
Q.4	(a)	Write short note on kriging and semivariogram.	07
	(b)	Explain sliver polygons and wired polygons and Tiling.	07
Q.5	(a)	Describe point, line, polygon overlay on polygon in both raster and vector	07
		system.	
	(b)	Discuss Connectivity and circuitry of Linear Objects.	07
		OR	
Q.5	(a)	Explain Inductive and Deductive Modeling.	07
	(b)	Write short note on Map Design control in GIS output.	07
