Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER-V • EXAMINATION – SUMMER • 2014

Subject Code: 650013Date: 02-06-20Subject Name: Geographical Information System			
Ti	-	0:30 am - 01:00 pm Total Marks: 70	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Definition of GIS and Evolution of GIS.	07
	(b)	What do you mean by Map Projection? Explain different types with example.	07
Q.2	(a) (b)	Elaborate cartesian coordinate system for Geographical Information System. Explain different methods of compacting raster data.	07 07
		OR	
	(b)	Write short note on input subsystem.	07
Q.3	(a)	Explain file structures with suitable figure.	07
	(b)	Explain Gravity Model with suitable example.	07
•••		OR	•
Q.3	(a)	Explain higher level point object with suitable figure.	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. OR	07
Q.4	(a)	Explain Nonlinear interpolation method with figure.	07
۲۰ ۲	(b)	Explain sliver polygons and wired polygons with figure.	07
Q.5	(a)	Give principles of cartographic design in GIS.	07
	(b)	Write short note on map design control in GIS output. OR	07
Q.5	(a)	Discuss Connectivity and circuitry of Linear Objects.	07
Z	(b)	Describe Digital elevation model (DEM) in detail.	07
