Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V EXAMINATION - WINTER 2018

Subject Code: 2650013 Subject Name: Geographical Information System Time: 10.30 am to 1.00 pm Instructions: Date: 28/11/2 Total Mark			/2018	
			70	
1115		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Explain Overview of Four Subsystems of GIS	07	
	(b)	Explain spatial location and reference. Explain MAP Scale.	07	
Q.2	(a)	Explain any two input device to provide primary data to GIS.	07	
	(b)	Elaborate Polar coordinate system for Geographical Information System.	07	
	(b)	OR Explain map projection with its types in detail.	07	
Q.3	(a)	Write short note on calculating polygon length & perimeter with example.	07	
	(b)	Describe Metadata and Metadata standard with all its category.	07	
Q.3	(a)	OR What is Error in Digitizing Process? Explain Errors for Raster and Vector. Also explain the Rubber Sheeting.	07	
	(b)	Explain different file structure for data storage.	07	
Q.4	(a)	Explain the reclassification method Buffering with various types of Buffers.	07	
	(b)	Explain Inductive and Deductive modeling.	07	
		OR		
Q.4	(a)	Write short note on Nonlinear Interpolation methods in surface with types.	07	
	(b)	Explain High pass filter and low pass filter.	07	
Q.5	(a)	Which are non-cartographic outputs available for GIS? Explain them.	07	
	(b)	Write a short note on map design control in GIS output.	07	
Q.5	(a)	OR Give the example of cartographic model implementation and verification.	07	
	(b)	Explain Line in Polygon overlay calculation with diagram.	07	
