Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – V • EXAMINATION – WINTER 2017

Subject Code: 650013 Date:30/1				
Subject Name: Geographical Information System Time: 10.30 am to 01.00 pm Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.				
Q.1	(a) (b)	What is GIS? Explain any six applications of GIS. Explain Metadata and Metadata Standard with all its categories.	07 07	
Q.2	(a) (b)	What do you mean by Projection? Explain any two Map Projections. What is Spatial Measurement Level? Explain different type of it. OR	07 07	
	(b)	Explain Sliver Polygons and Wired Polygons with figure.	07	
Q.3	(a) (b)	Explain Alpha Index and Beta Index in details. Explain any two devices useful for input to GIS. OR	07 07	
Q.3	(a) (b)	Explain Higher Level Line Object with its different types of network. Explain various types of Buffers of reclassification process.	07 07	
Q.4	(a) (b)	Explain file structures with suitable figure. Explain different types of Centroid in Higher Level Point Objects with diagram OR	07 n. 0 7	
Q.4	(a) (b)	Explain Topological Vector Overlay in details. How to calculate Perimeter and Length of Polygons.	07 07	
Q.5	(a) (b)	Describe Digital Elevation Model (DEM) in detail. Explain various overlay methods used for comparing variables among maps. OR	07 07	
Q.5	(a) (b)	Explain Inductive and Deductive Modeling in details. Explain Non-Cartographic outputs available for GIS.	07 07	
