

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– V EXAMINATION – WINTER 2016

Subject Code: 2650013**Date: 28/11/ 2016****Subject Name: GEOGRAPHICAL INFORMATION SYSTEM****Time: 10.30 am to 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What is GIS? Explain the Methods for representing Geographic Space. **07**
(b) Describe Point, line, polygon Overlay on polygon in both Raster and Vector System. **07**
- Q.2** (a) Explain Vector models. **07**
(b) Explain Non Cartographic Output in detail. **07**
- OR**
- (b) Explain Map Preparation and digitization Process. **07**
- Q.3** (a) What do you Mean by Map Projection? Explain Different Types with Example. **07**
(b) Explain Inductive and Deductive Modeling. **07**
- OR**
- Q.3** (a) Write Short note on Input Subsystem. **07**
(b) Give Principles of Cartographic Design in GIS. **07**
- Q.4** (a) What is Statistical Surface? Which are the approaches for sampling it? **07**
(b) Explain Cartographic Model with its type. **07**
- OR**
- Q.4** (a) Explain Different File Structure For data Storage. **07**
(b) Write Short note on Map Design Control In GIS output. **07**
- Q.5** (a) Explain Overview of Four Subsystems of GIS. **07**
(b) Explain Different types of buffers of reclassification process. **07**
- OR**
- Q.5** (a) List methods of compacting raster data. Explain all. **07**
(b) Describe Metadata and Metadata standard with all its category. **07**
