

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.

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|------------|-----|--|-----------|
| 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 |
