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B.E./B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2011
GEOINFORMATIC ENGINEERING BRANCH
SIXTH SEMESTER
GI 384 GEOGRAPHIC INFORMATION SYSTEM - II
(Regulation 2004)

12

Time : 3 Hours

Maximum Marks: 100

Answer ALL questions

PART A – (10 X 2 = 20 marks)

1. What is spatial aggregation?
2. Define parceling.
3. Write about SQL.
4. Differentiate Clip and Erase operations in GIS.
5. Define is conceptual model.
6. What is AM/FM?
7. Why Interpretability is required for GIS?
8. List various sources of error in geographic data.
9. How mobile mapping differs from conventional mapping?
10. What is the need of customization in GIS?

PART B – (5 X 16 = 80 marks)

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|-------------|---|----|
| 11(a) | (i) Describe the advantages of Object Oriented GIS. | 6 |
| | (ii) What is Internet GIS? Explain different architecture used for implementing Internet GIS with their merits and demerits | 10 |
| 12(a) | (i) Define Neighbourhood. Explain different types of neighborhood operations available in GIS for raster data analysis. | 12 |
| | (ii) Write a short note on Map Algebra. | 4 |
| (OR) | | |
| (b) | (i) What is viewshed analysis? Describe any two applications of viewshed analysis. | 8 |
| | (ii) Explain different types of Reclassification with their applicability. | 8 |
| 13(a) | Explain different types of overlay analysis used with vector data. Use neat sketches wherever required. | 16 |
| (OR) | | |
| (b) | (i) Describe the concept of Address Geocoding. | 6 |
| | (ii) Why do we need surface interpolation? Explain different interpolation methods used in GIS. | 10 |
| 14(a) | With a case study, explain the use of GIS in natural resource management in data storage, analysis and visualization. | 16 |
| (OR) | | |
| (b) | (i) What are the contents of a typical Land Information System | 6 |
| | (ii) Explain the different applications of GIS in Business management. | 10 |
| 15(a) | Why do we require Spatial Data Standards? Explain different types of spatial data standards. | 16 |
| (OR) | | |
| (b) | (i) Describe the propagation of error in GIS data analysis. | 6 |
| | (ii) Explain the detailed procedure for assessment of attribute accuracy of spatial data in GIS. | 10 |