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B.E./B.Tech. DEGREE END SEMESTER EXAMINATIONS, OCTOBER/NOVEMBER 2011

Geoinformatic Engineering Branch

Sixth Semester

GI 384 Geographic Information System – II

(Regulation 2004)

Time : 3 Hours

Maximum Marks: 100

Answer ALL questions

PART A – (10 X 2 = 20 marks)

1. List various types of Reclassification in Raster Data Analysis.
2. What are the operators used in Map Algebra?
3. Write any four applications of Address Geocoding.
4. With neat sketch, show the Intersection of Vector data.
5. Define AM/FM.
6. List various applications of GIS in Business Management.
7. Differentiate Accuracy and Precision with neat sketch.
8. What is interoperability in GIS?
9. How 2.5D GIS differ from 2D GIS?
10. Why do you require customization of GIS?

PART B – (5 X 16 = 80 marks)

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| 11(a) | (i) Explain various architecture used for WebGIS with their relative advantages and disadvantages. | 10 |
| | (ii) Discuss Objected Oriented GIS. | 6 |
| 12(a) | Explain various components of Data Quality used for Spatial Data in GIS. | 16 |

(OR)

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| (b) | (i) Discuss different Spatial Data Transfer Standards used in GIS. | 8 |
| | (ii) What is meta data? Explain the components of meta data. | 8 |

13(a) The police department of Chennai Metropolitan Area wants to implement GIS in controlling the crime rate in the city. Explain how GIS can help in achieving the objective. 16

(OR)

(b) (i) How GIS can be used to develop a management system of Electrical Utilities in Indian Cities. What are disadvantages of the system? 10

(ii) Discuss various components of Land Information System. 6

14(a) Explain various analysis operations available in GIS for Vector data analysis. 16

(OR)

(b) What is Overlay Analysis? Explain different types of overlay analysis available in GIS with a note on their utility. 16

15(a) (i) What is Viewshed Analysis? List various applications of viewshed analysis. 6

(ii) What is Aspect? Describe the methodology used to derive aspect map in GIS. 10

(OR)

(b) Explain different Regional Operations available in GIS for Raster Data Analysis. 16