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Question Paper Code : 41009

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Sixth Semester

Civil Engineering

080100034 — REMOTE SENSING AND GIS

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the major components of GIS.
2. List a few types of maps.
3. What is meant by DEM and DTM?
4. Define the term Network Tracing.
5. What are the forms of data output?
6. Name a few photo write devices.
7. List the applications of GIS in resource management.
8. What is meant by LIS?
9. What is meant by AM/FM?
10. What is the need of integration of GIS with remote sensing?

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about the various types of data and data formats used in GIS. (16)

Or

- (b) Write detailed notes on Vector and Raster data structures. (16)

12. (a) Discuss in detail about Spatial Analysis and Overlay Analysis. (16)

Or

(b) Explain about modelling using Geographic Information System. Support your answer with a case study. (16)

13. (a) Write detailed notes on Raster and Vector display devices. (16)

Or

(b) List the various Sources and Type of Errors in GIS and also explain briefly about the elimination of such errors. (16)

14. (a) Write detailed notes on the following using case studies :

(i) GIS applications in Water Resources. (8)

(ii) GIS applications in Wasteland Management. (8)

Or

(b) Discuss briefly about the following :

(i) GIS applications in Social resources. (8)

(ii) GIS and Cadastral Records. (8)

15. (a) Discuss in detail about Object Oriented Data Base Models. (16)

Or

(b) Write detailed notes on following :

(i) Multi Criteria techniques in GIS analysis. (8)

(ii) Knowledge based Techniques in GIS analysis. (8)