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10CV844

Eighth Semester B.E. Degree Examination, June/July 2018
Geographic Information System

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART - A

- 1 a. What is Geographic Information system? Briefly explain its concept and spatial models. (12 Marks)
b. Describe in detail about GIS basic functionality. (08 Marks)
- 2 a. Define map and its types. What is the necessity of map projection and briefly explain different types of map projection. (12 Marks)
b. What are the methods of spatial referencing system explain them. (08 Marks)
- 3 a. What GIS data structure? Enumerate different types of GIS data structure. (10 Marks)
b. What is georelation vector model and its advantages. (10 Marks)
- 4 a. Describe different method to link spatial data with non spatial data in GIS. (08 Marks)
b. Write a note on principles of digitizer and scanner. (06 Marks)
c. Describe different types of data input method. (06 Marks)

PART - B

- 5 a. What are different sources of errors in GIS data? Explain briefly. (10 Marks)
b. What is overlay analysis? Describe different types of overlay analysis. (10 Marks)
- 6 a. What are satellite data? Explain how satellite data are integrated using GIS for decision support system. (10 Marks)
b. Explain the following :
i) Multivariate evaluation
ii) Virtual GIS. (10 Marks)
- 7 a. What is DBMS in GIS? Describe its components. (05 Marks)
b. Explain the functions of DBMS. (05 Marks)
c. List and explain briefly different database models. (10 Marks)
- 8 a. What is Global positioning system? Describe its segments and major applications. (08 Marks)
b. What is Digital Image processing? Describe briefly different DIP techniques. (12 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.