Paper / Subject Code: 42951 / Geographic Information Systems

[Total Marks : 80]   **(3 Hours)**

Notes :
1. **Question No 1 is compulsory**
2. **Attempt any THREE questions out of five questions**
3. **ASSUME any additional data if necessary and state it clearly**
4. **Draw FIGURES wherever necessary .Figures to the right indicate full marks**
5. **WRITE proper question / sub question numbers on the left margin allotted in answer sheet.**

1. **Attempt any 4**   **[20]**
   a) What are Types and Elements of Maps
   b) Map Projections
   c) Types of Spatial Data
   d) overlaying analysis
   e) Write a short note on History Geographic Information Systems
   f) TIN Model

2. a) Explain Projection Coordinate System: Geographic, rectangular & Polar   **[10]**
   b) What are the different types of DBMS   **[10]**

3. a) Non spatial data and its Types   **[10]**
   b) Short Note on Data Base Management Systems   **[10]**

4. a) Short Note on Vector & Raster Analysis Methods   **[10]**
   b) What are the different components of GIS   **[10]**

5. a) Short note on : a) Objective of GIS   **[10]**
                        b) Coordinate Systems
   b) Short Note : Meta data   **[10]**

6. **Write Short Note on (any 4)**   **[20]**
   a) Spatial Analysis (Dem Analysis)
   b) Error in GIS
   c) GIS Output Design and Presentation
   d) Functions of DBMS
   e) Web GIS
   f) Network Analysis

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