

Total No. of Questions : 10]

SEAT No. :

P2359

[Total No. of Pages : 2

[5254] - 692

**B.E. (Information Technology) (Semester - I)**  
**GEO INFORMATICS SYSTEM (Elective - II)**  
**(2012 Pattern)**

*Time : 2½ Hours]*

*[Max. Marks : 70]*

**Instructions to the candidates:**

- 1) Answer Q.1 or Q.2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

**Q1)** a) What are the applications of remote sensing. [5]  
b) Explain GIS categories. [5]

OR

**Q2)** a) Explain Basic elements of Image interpretation. [5]  
b) List and explain any 2 basic character of digital images. [5]

**Q3)** a) Write short note on SAR. [5]  
b) Explain the Radar principle. [5]

OR

**Q4)** a) Explain basic elements of Image Interpretation. [5]  
b) Explain spatial filtering. [5]

**Q5)** a) Explain Geo metric transformation in detail. [8]  
b) Explain types of errors. [8]

OR

**Q6)** a) Describe attribute data in GIS. [8]  
b) List sources of errors in GIS and explain the same. [8]

**P.T.O.**

- Q7)** a) Explain basic elements of GIS modeling. [10]  
b) Differentiate between Vector and Raster data. [8]

OR

- Q8)** a) Explain types of data queries. [6]  
b) Explain binary and Index model. [6]  
c) Explain buffering and overlay. [6]

- Q9)** a) Explain components of ITS and its architecture. [8]  
b) List urban and municipal applications. [8]

OR

- Q10)** a) Explain Geospatial database design methodology. [8]  
b) Explain GIS can be used for vehical routing & scheduling by municipal corporation. Assume suitable data. [8]

