

Total No. of Questions : 12]

SEAT No. :

P809

[Total No. of Pages : 2

[4659] - 222

**B.E. (Information Technology) (Semester - II)**

**GEO INFORMATICS SYSTEM**

**(2008 Pattern) (Elective - IV(C))**

*Time : 3 Hours]*

*[Max. Marks : 100*

*Instructions to the candidates :*

- 1) *Answer any three questions from each section.*
- 2) *Answers to the two sections should be written in separate books.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*
- 5) *Use of calculator is allowed.*

**SECTION - I**

**Q1)** a) Explain Image Interpretation strategy in detail? [8]

b) Explain Spatial filtering Technique in detail? [8]

OR

**Q2)** a) Explain the different pre-processing method in detail? [8]

b) Explain Image enhancement and Registration in detail with example.[8]

**Q3)** a) Explain the electromagnetic remote sensing process with diagram? [9]

b) Explain SAR and SLAR in detail with diagram? [9]

OR

**Q4)** a) Explain the radar principal with required formula. What are the factors affecting microwave? [9]

b) List various satellites. Describe them with example? [9]

**Q5)** a) Explain in detail the role of remote sensing in GIS? [8]

b) What is Map Projection? Describe different types of map projection?[8]

**P.T.O.**

OR

- Q6)** a) Explain the architecture of GIS in detail? [8]  
b) Explain different types of scale representation? [8]

**SECTION - II**

- Q7)** a) Explain various methods of conversion of geoinformation? [8]  
b) What are the sources and effects of errors in GIS? [8]

OR

- Q8)** a) Explain the factors that are affecting the reliability of GIS data. [8]  
b) Describe in detail RMS error location error Topological error? [8]

- Q9)** a) What are different techniques of geospatial data? [9]  
b) What is raster data model? Explain it with suitable example? [9]

OR

- Q10)**a) Explain various GIS modeling techniques? [9]  
b) What is vector data model? Explain it with suitable example. [9]

- Q11)**a) Describe different application of GIS? [8]  
b) Describe the objectives of GIS design in detail? [8]

OR

- Q12)**a) Explain issues and trends in GIS development. [8]  
b) Explain how GIS can be used by municipal corporation to plan for roadmaps? [8]

