

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]

