

Total No. of Questions : 10]

SEAT No. :

P3643

[4959]-1132

[Total No. of Pages : 2

B.E. (Information Technology)
GEO INFORMATICS SYSTEMS (Elective - II)
(2012 Pattern) (414457D) (Semester - I)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.
- 2) Draw neat diagrams wherever necessary.
- 3) Figures to the right indicate full marks.

Q1) a) Explain the components of Geo-Informatics. **[5]**

b) Write short note on **[5]**

i) Side Looking Airborne Radar system

ii) Synthetic Aperture Radar

OR

Q2) a) Explain Linkage of GIS to Remote sensing. **[5]**

b) Define GIS. What are the four M's of GIS? Explain the term topology. **[5]**

Q3) a) Explain the comparison between active sensor & passive sensor. **[5]**

b) Explain types of pictorial data products. **[5]**

OR

Q4) a) Explain the process of image registration. **[5]**

b) Explain imaging sensor system. **[5]**

P.T.O.

- Q5)** a) Explain different types of error. [8]
b) Explain the concept of geometric transformation. [8]

OR

- Q6)** a) Explain the accuracy, precision & resolution as quality factors of GIS data. [8]
b) Explain the need of conversion of existing data. [8]

- Q7)** a) What is raster data representation. Explain it with suitable example. [8]
b) Explain the types of data queries. [8]

OR

- Q8)** a) Explain the basic elements of GIS modeling. [8]
b) What is vector data representation. Explain it with suitable example. [8]

- Q9)** a) Explain different applications of GIS. [9]
b) Describe the software scenario in GIS focusing on functionalities, product and developers. [9]

OR

- Q10)** a) Explain issues & trends in GIS development. [9]
b) Explain Intelligent Transport system with components. [9]

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