[4959]-1132

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 Airbone 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 comparision bet^n active sensor & passive sensor.   **[5]**

    b)   Explain types of pictoral 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 ctements 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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