

Total No. of Questions : 6]

SEAT No. :

**P111**

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**Oct.-16/B.E./Insem.- 169**

**B.E. (Information Technology)**

**GEO INFORMATICS SYSTEM**

**(2012 Pattern) (Semester - I) (Elective - II(d))**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5, or Q6.*
- 2) *Figures to the right side indicate full marks.*

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

b) Explain Transverse Mercator and Oblique Mercator in detail. **[5]**

OR

**Q2) a)** What are maps? What is map scale? Explain Spatial referencing System. **[4]**

b) Explain how map projection used in GIS to generate maps based on geo Spatial information? Assume suitable geo information and apply map projection. **[6]**

**Q3) a)** Explain the classification of imaging sensor system. **[6]**

b) Write a short note on (any one) **[4]**

i) Side Looking Airborne Radar.

ii) Synthetic Aperture Radar.

OR

**Q4) a)** Explain in detail all satellite system parameters and their significance in remote sensing? **[6]**

b) Explain the concept of Interpreting SAR images. **[4]**

**P.T.O.**

- Q5)** a) Explain Image interpretation Strategy. [5]  
b) Explain Image registration process. [5]

OR

- Q6)** a) Write short note on (any one) [5]  
i) NDVI Transformation  
ii) PCA Transformation  
b) Explain Image Classification process. [5]

