

00519

B.TECH. IN CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2011

BICE-006 : GEOINFORMATICS

Time : 3 hours

Maximum Marks : 70

Note : *Attempt any **seven** questions.*

*All the questions are to be answered in **English Language** only.*

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1. Explain what is relief displacement and how it is calculated. The distance from the principal point to an image on a photograph is 6.44 cm and the elevation of the object above datum is 250 m. What is the relief displacement of the point if datum scale is 1 : 10000 and focal length is 20 cm ? 10

 2. Describe with a neat sketch : 10
 - (a) Parallel Bar
 - (b) Mirror stereoscope

 3. Explain real remote sensing process. How do they differ from ideal requirement ? 10

4. Discuss the spectral reflectance characteristics of water and vegetation in different spectral bands. 10
 5. Discuss the supervised and unsupervised classification in detail. 10
 6. Describe the key components of GIS. Explain the function of GIS. 10
 7. What do you understand by spatial data and attribute data ? How are they integrated to make a GIS ? 10
 8. Describe the following : 10
 - (a) Kinematic GPS
 - (b) Dilution of precision
 9. What are the important functions in a GIS ? 10
Explain buffering with suitable examples with context to vector data.
 10. Attempt *any two* of the following : 10
 - (a) DGPS
 - (b) FCC
 - (c) Stereoscopy
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