

**B.TECH. CIVIL ENGINEERING (BTCLEVI)**

00854

**Term-End Examination**

**June, 2014**

**BICE-006 : GEOINFORMATICS**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Answer any seven questions.*

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1. Discuss briefly the different types of aerial photographs and their uses. 10
2. Define and explain the following terms with a neat sketch : 10
  - (a) Flying height
  - (b) Azimuth
3. What is remote sensing ? How is it different from photogrammetry ? 10
4. Differentiate between resolving power and spatial resolution. 10
5. What is image processing ? Discuss digital image processing and its advantages. 10
6. Explain the role of hardware, software and organizational role in GIS. What are the different data structures used in GIS ? 10

7. What are the advantages and disadvantages of different spatial data models ? How are time and the third dimension handled in GIS ? 10
  8. What is meant by resolution ? Explain how it influences the data quality of GIS. 10
  9. Discuss the application of GPS in Civil Engineering. 10
  10. What are the characteristics of GPS surveying and GPS navigation ? 10
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