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**BICE-006**

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

**Term-End Examination**

**June, 2019**

**BICE-006 : GEOINFORMATICS**

*Time : 3 Hours*

*Maximum Marks : 70*

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*Note : Answer any seven questions. All questions  
carry equal marks.*

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1. What are aerial photographs ? State their advantages and disadvantages as compared to a map. 10
2. Define the following and state their application in aerial photography :
  - (a) Flight planning 5
  - (b) Stereoscopy 5
3. Briefly discuss the importance of remote sensing and its uses. 10
4. (a) Discuss the different types of scattering. 5  
(b) Differentiate between spatial and spectral resolution of a satellite sensor. 5

5. What do you understand by spatial data and attribute data ? How are they integrated to make a GIS ? 10
6. (a) What is metadata and what is its role in GIS ? 5  
 (b) Discuss the process of digitization. 5
7. What do you understand by spectral reflectance curves ? How are they obtained and what are their applications ? 10
8. Explain, with neat sketch, differential GPS. 10
9. Discuss the factors which affect the operation of GPS in detail. 10
10. Write short notes on any *four* of the following :  $4 \times 2\frac{1}{2}$ 
  - (a) FCC
  - (b) Image Enhancement
  - (c) Supervised classification of data
  - (d) Geostationary satellites
  - (e) Overlap in aerial photogrammetry
  - (f) Electromagnetic radiation