| BICE-006 |

B.Tech. CIVIL ENGINEERING (BTCLEVI)
Term-End Examination
December, 2017

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BICE-006 : GEOINFORMATICS

Time : 3 hours   *Maximum Marks : 70*

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

1. What are the characteristics of photographic images ? Explain in detail. **10**

2. Define the following and state their applications in aerial photography : **5+5=10**

   (a) Flight planning

   (b) Stereoscopy

3. Discuss in detail, the different types of sensors used in remote sensing. **10**

4. What do you understand by spectral reflectance curves ? How are they obtained and what are their applications ? **4+6=10**

5. Describe the various applications of remote sensing. **10**

6. Discuss in detail, the image enhancement technique in remote sensing. *10*

7. Explain with neat sketch, Differential GPS. *10*

8. What do you understand by Spatial Data and Spatial Modelling ? Describe the acquisition and analysis of spatial data. *5+5=10*

9. Differentiate between the following : *5+5=10*

(a) True colour composite and False colour composite

(b) Supervised and Unsupervised classification of data

10. Write short notes on any *four* of the following : $4 \times 2\frac{1}{2}=10$

(a) Scales

(b) Relief Displacement

(c) DEM

(d) Vertical Photograph

(e) Exposure Station