B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00056 ## June, 2017

BICE-006 : GEOINFORMATICS

Time : 3 hours　　　　　　　　Maximum Marks : 70

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

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1. What do you understand by overlap in aerial photography ? Discuss the different types of overlaps and state their purposes.　　*5+5=10*

2. What are aerial photographs ? State their advantages and disadvantages as compared to a map.　　*6+4=10*

3. What is remote sensing ? What are the characteristics of an ideal remote sensing system ?　　*4+6=10*

4. Differentiate between the following :

   (a) Spatial and Spectral resolution of a satellite sensor　　5

   (b) Photographic images and Satellite images　　5

5. Discuss land use and land cover classification systems. *10*

6. What do you understand by GIS ? Describe the various applications of GIS. *3+7=10*

7. Differentiate between raster and vector formats in GIS. *10*

8. Discuss the components of GPS, in detail. *10*

9. Describe the working of a satellite navigation system. *10*

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

   (a) Receivers

   (b) FCC

   (c) Image Enhancement

   (d) LANDSAT

   (e) Parallax Bar

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