

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

**Term-End Examination**

**December, 2016**

**BICEE-003 : REMOTE SENSING IN CIVIL  
ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. What are the considerations for an ideal remote sensing system ? 10
2. Distinguish between Active and Passive scanning systems, giving relevant examples. 10
3. What is resolution of a sensor ? Describe different types of resolutions. 10
4. Describe in brief different remote sensing satellites launched by India. 10
5. What is filter in photographic imaging ? Explain different types of filters used in photographic imaging. 10
6. What do you understand by Visual Image Interpretation ? Explain the elements of image interpretation in brief. 10

7. Explain the use of remote sensing data for geomorphological and soil mapping in the context of geological mapping. 10
8. Discuss with examples the usefulness of multi-seasonal data in land-use/land cover pattern analysis. 10
9. Explain the application of remote sensing in ocean and coastal monitoring. 10
10. Write short notes on any *four* of the following :  $4 \times 2 \frac{1}{2} = 10$
- (a) Nadir and Swath
  - (b) Colour Composite
  - (c) Digital Model
  - (d) Radar
  - (e) Stereo-plotters
  - (f) Scale
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