

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

**Term-End Examination**

**December, 2017**

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**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 is Remote Sensing ? Discuss the remote sensing process with an illustrative line diagram. 10
2. Describe the role of remote sensing in terrain investigation. 10
3. Describe the methods of appropriate digital processing of satellite data. 10
4. Explain Active Scanning Systems with examples. 10
5. What is Filter in photographic imaging ? Explain the different types of filters used in photographic imaging. 10

6. Explain the process of topographic mapping using remote sensing. 10
7. How will you find the soil characteristics using remote sensing techniques ? Explain in detail. 10
8. How can remote sensing be advantageously employed for mapping of resources for civil engineering projects ? 10
9. Discuss with examples, the usefulness of multi-seasonal data in land use/land cover pattern analysis. 10
10. Write short notes on any *four* of the following :  $4 \times 2 \frac{1}{2} = 10$
- (a) Colour Composite
  - (b) Hemisphere Reflectance
  - (c) Spatial Resolution
  - (d) LIDAR
  - (e) Parallax Bar
  - (f) Image Interpretation
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