

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

**Term-End Examination**

00468

**June, 2018**

**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. Explain passive microwave remote sensing in detail. 10
2. Name the different sensors developed by India for remote sensing. Explain the spectral and spatial resolution of all LISS sensors. 10
3. Explain the working principle of aerial metric camera. 10
4. What are the types of films used in remote sensing? Illustrate your answer with diagrams. 10
5. What do you understand by Visual Image Interpretation? Explain the elements of image interpretation in brief. 10

6. Describe the identification of geomorphic and hydrogeomorphic features and their mapping. 10
7. Discuss in detail the techniques available for 3D viewing in digital photogrammetry. 10
8. Describe the applications of Remote Sensing in Water Resources Engineering. 10
9. Explain the following applications of Remote sensing in detail :  $2 \times 5 = 10$
- (a) Monitoring areas prone to landslides
  - (b) Urban sprawl monitoring
10. Write short notes on any **four** of the following :  $4 \times 2 \frac{1}{2} = 10$
- (a) Thermal Infrared Scanning System
  - (b) Ideal Remote Sensing
  - (c) Nadir and Swath
  - (d) Digital Model
  - (e) Stereoplotters
  - (f) G.I.S.
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