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

**Term-End Examination**

**December, 2012**

**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. Discuss the advantages and limitations of remote sensing. 10
2. What is resolution of a sensor ? Describe all sensor resolutions. 10
3. What are the remote sensing satellites launched by India ? Describe briefly. 10
4. What are the types of films used in remote sensing ? Illustrate your answer with diagrams. 10
5. Describe the identification of Geomorphic and hydrogeomorphic features and mapping. 10
6. How will you find the soil characteristics using remote sensing techniques ? Explain briefly 10

7. What are the requirements of ground data in remote sensing ? 10
8. Discuss in detail the techniques available for 3D viewing in digital photogrammetry. 10
9. Explain applications of remote sensing in hydrological science. 10
10. Write short notes on *any four* of the following : 2.5x4=10
- (a) Thermal Infrared scanning system
  - (b) Aerial photographs
  - (c) Application of remote sensing in construction materials.
  - (d) Stereoplotters
  - (e) Regional and Urban planning using remote sensing
  - (f) Microwave remote sensing.
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