

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

Term-End Examination

June, 2013

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions.

All questions carry equal marks.

1. What are the considerations for an ideal remote sensing system? 10
2. What are the advantages and disadvantages of various remote sensing platforms? 10
3. Explain the working principle of aerial metric camera. 10
4. Explain passive microwave remote sensing. 10
5. Describe methods of appropriate digital processing of satellite data. 10
6. How will you find topographic mapping using remote sensing? 10

7. Explain the application of remote sensing in water resources. 10
8. Discuss the use of remote sensing images in various geological applications. 10
9. Discuss with example the usefulness of multi-seasonal data in land - use / land cover pattern analysis. 10
10. Write short note on *any four* of the following : $4 \times 2.5 = 10$
- (a) Photogrammetry
 - (b) Digital model
 - (c) Active Scanning system
 - (d) Parallax bar
 - (e) Water targetting
 - (f) Mapping surface water bodies.
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