

B.Tech. IN CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2014

00365

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

Time : 3 hours

Maximum Marks : 70

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

1. Discuss the applications of Remote Sensing in Civil Engineering. 10
2. Distinguish between Active and Passive scanning systems, giving relevant examples. 10
3. Explain the process of topographic mapping using remote sensing. 10
4. Write short notes on the following : $4 \times 2 \frac{1}{2} = 10$
 - (a) Parallax Bar
 - (b) Radio-meter
 - (c) Scale
 - (d) Radar

5. How can remote sensing be applied to regional and urban planning ? Discuss in detail. 10
 6. What is the necessity of field work in conjunction with remote sensing ? Explain. 10
 7. What are the considerations for an ideal remote sensing system ? Explain in detail. 10
 8. Explain, in detail, how Remote Sensing can be used for determining soil characteristics. 10
 9. Discuss the working principle of aerial metric camera. 10
 10. Discuss the various methods for digital processing of satellite data. 10
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