

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2017

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**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 advantages and limitations of remote sensing. 10
2. What are the types of films used in remote sensing? Illustrate your answer with diagrams. 10
3. What are the differences between supervised and unsupervised classification of digital images? Explain briefly. 10
4. Explain the working principle of an aerial metric camera. 10
5. Describe the methods of appropriate digital processing of satellite data. 10

6. Name the different sensors developed by India for remote sensing. State the spectral and spatial resolution of all LISS sensors. 10

7. Explain the application of remote sensing in water resources. 10

8. How can remote sensing be applied to regional and urban planning? Discuss in detail. 10

9. Discuss in detail the techniques available for 3D viewing in digital photogrammetry. 10

10. Write short notes on any *two* of the following : $4 \times 2 \frac{1}{2} = 10$

- (a) Microwave Remote Sensing
 - (b) Thermal Infrared Scanning System
 - (c) Parallax Bar
 - (d) Ideal Remote Sensing
 - (e) Radio Meter
 - (f) Panoramic Cameras
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