| BICEE-003 |

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2015

00426

BICEE-003 : REMOTE SENSING IN CIVIL ENGINEERING

Time : 3 hours   *Maximum Marks : 70*

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

1. Describe the applications of Remote Sensing in Water Resources Engineering.   **10**

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

   (a) Lidar

   (b) Cartography

   (c) Multi-spectral Scanner

   (d) Photogrammetry

3. Describe the process of topographic mapping using satellite data.   **10**

4. Explain Active Scanning Systems with examples.   **10**

5. Describe the role of Remote Sensing in terrain investigation. *10*

6. Discuss the following : *2×5=10*

   (a) Physical basis of Remote Sensing

   (b) Mapping of inaccessible areas

7. How can Remote Sensing be advantageously employed for mapping of resources for Civil Engineering projects ? *10*

8. Discuss the usefulness of multi-seasonal data in land-use/land cover pattern analysis. *10*

9. Describe how the geomorphic and hydrogeomorphic features are identified by using ·Remote Sensing. *10*

10. Explain the following applications of Remote Sensing in detail : *2×5=10*

   (a) Monitoring, areas prone to landslides

   (b) Mapping of surface water bodies

———