

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2016

00723

BICE-006 : GEOINFORMATICS

Time : 3 hours

Maximum Marks : 70

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

1. (a) Explain in detail about aerial cameras and their types. 5
- (b) Explain the methods of preparing index maps. 5
2. (a) Discuss the photo interpretation in detail. 5
- (b) What is Stereoscopy ? Discuss in detail. 5

- 3. (a) Explain the idealized remote sensing system. 5**
- (b) Describe all resolution sensors in remote sensing. 5
- 4. (a) Explain geosynchronous and sunsynchronous orbits. 5**
- (b) Write notes on False Colour Composite and Natural Colour Composite. 5
- 5. (a) Discuss the supervised and unsupervised classification. 5**
- (b) Explain the radiometric restoration and geometric restoration. 5
- 6. (a) Discuss the different GIS Data models in detail. 5**
- (b) Explain the topological model of vector data. 5
- 7. (a) What is metadata and what is its role in GIS ? 5**
- (b) Write the process of digitization. 5

8. (a) Discuss the different types of receivers. 5
- (b) Discuss the working of Differential GPS. 5
9. Write short notes on any *two* of the following : $2 \times 5 = 10$
- (a) Overlap in Aerial Photogrammetry
- (b) Histogram in Digital Image Analysis
- (c) Elements of Visual Interpretation
-