

19/10/13

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**B.E /B.Tech (Full Time) DEGREE END SEMESTER EXAMINATION, NOV/DEC 2013**

**GEOINFORMATIC ENGINEERING BRANCH**

**FOURTH / SIXTH SEMESTER (Regulation 2004/2008)**

**GI 282 / GI 9354 Photogrammetry II**

Time: 3 Hours

Maximum Marks: 100

Answer All Questions

PART A – (10 X 2 = 20 Marks)

1. Differentiate Mechanical Projection Stereo Plotters and Optical projection Stereo Plotters.
2. List the principles involved in digital photogrammetric plotting.
3. Write short notes on anaglyphic viewing system.
4. Compare Orthophoto and Map.
5. Define the terms: Tie point and Pass point.
6. List the merits of aerial triangulation measurement.
7. What are the factors to be considered for selection of good Horizontal and vertical photo control points?
8. Describe the uses of close range photogrammetric techniques in the field of Archaeology.
9. Write short notes on Digital Surface Model.
10. Differentiate normal scanner and aerial photography scanner.

PART – (5 X 16 = 80 Marks)

11. i. Explain the different methods of relative orientation for analog stereo plotter. (12)  
ii. Describe Universal Stereo Plotter. (4)
  - 12a. i. Explain the steps involved in interior orientation for analog and analytical stereo plotter. (12)  
ii. Write short notes on semi analytical stereo plotter. (4)
- (OR)
- 12b. i. Explain analog stereo plotter absolute orientation in detail. (12)  
ii. Discuss Zeiss parallelogram. (4)

13a. i. Explain the principle involved in preparation of orthophoto by offline and online methods. (16)

(OR)

13b. i. Explain the working principle of Phototheodolite and Stereometric camera. (12)  
ii. Discuss X ray photogrammetry. (4)

14a. i. Discuss analog triangulation and independent model triangulation in detail with neat sketch. (16)

(OR)

14b. i. Explain three-dimensional coordinate transformation in detail. How this transformation useful in photogrammetric application? (16)

15a. i How the images are stored in digital photogrammetry work station? (6)

ii. Discuss the different viewing systems used in digital photogrammetry. (6)

iii. Write short notes on photogrammetric work station. (4)

(OR)

15b. i. How does the Automatic measurement of fiducial mark in Digital Photogrammetry? (12)

ii. What are the recent developments in Digital Photogrammetry? (4)