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B.E /B.Tech (Full Time) DEGREE END SEMESTER EXAMINATION, OCT/NOV 2011

GEOINFORMATIC ENGINEERING BRANCH

SIXTH SEMESTER

GI 9354 PHOTOGRAMMETRY II

(Regulation 2008)

Time: 3 Hours

Maximum Marks: 100

Answer All Questions

PART A – (10 X 2 = 20 Marks)

1. What are the steps involved in Interior orientation?
2. List the different viewing systems employed in analog photogrammetric instrument.
3. What is universal stereo plotter?
4. What are the advantages of orthophoto?
5. Write is the purpose of point transfer devices?
6. Define Tie point and Pass point.
7. What is Hologrammetry?
8. List the parameters of 3D affine transformation.
9. What are sources of input for digital photogrammetry?
10. Write the typical characteristics of photogrammetry scanner.

PART – (5 X 16 = 80 Marks)

11. Explain the principle involved in production of orthophoto by on-line and off-line method (16)
- 12a. i. What is Relative orientation? Explain two different methods of analog relative orientation? (12)
ii. What is Coplanarity condition? Illustrate its uses. (4)
(OR)
- 12b. i. Explain the different steps involved in analog absolute orientation. (12)
ii. Describe map compilation. (4)
- 13a. i. Explain the procedure for Independent Model Triangulation. (12)
ii. What is polynomial strip adjustment? (4)
(OR)
- 13b. Explain numerical relative orientation by collinearity condition. (16)

- 14a. i. Derive an expression of parallax equation for equal elevation of camera station in terrestrial photos. (12)
ii. List the advantages of stereometric camera. (4)
(OR)
- 14b. i. Discuss three basic approaches in establishing control for terrestrial photogrammetry. (8)
ii. Write a short X ray photogrammetry. (8)
- 15a. i. Explain the step-by-step procedure involved in automatic point measurement. (12)
ii. Compare Analytical Photogrammetry and Digital Photogrammetry. (4)
(OR)
- 15b. i. How the images are stored in digital photogrammetry work station? (10)
ii. What are recent advancements in Digital Photogrammetry software? (6)