

18/11/13

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Degree : B.E / B.Tech (Full time) – Arrear Examination
Branch : Geoinformatics Engineering
Semester : VII
Subject code/ Subject title : GI9402 Digital Photogrammetry

Time : 3 Hours

Max. Marks: 100

Answer ALL Questions

Part A (10 X 2 = 20)

1. What is the best B/H ratio of Cartosat 1?
2. List at least four scanners for scanning a aerial photograph with their radiometric resolutions.
3. What is the advantages of a frame CCD?
4. Write the projection matrix to convert photo coordinate to world coordinate.
5. What is a DSM?
6. What is an image pyramid?
7. What is neat model?
8. *What are horizontal and vertical controls?*
9. *Describe breaklines and why are they important?*
10. List two ortho products?

Part B (5 X 16 = 80)

11. a. i) Describe procedures of Dem generation and ortho rectification using scanned photos .
12. a) How are the scanners calibrated for their geometry and radiometry?

(OR)

- b. Classify the scanners and enlist their specifications.
13. a. i) Explain the principle of interior and exterior orientation process.

(OR)

- b. Explain the various methods of generation of orthophotos?
14. a. What are the products derived from DEM and how are they produced?

(OR)

- b. Explain various feature matching techniques followed in digital photogrammetry.
 15. a. How is DSM generated from DEM?
- (OR)
- b. Describe the use of DP products in i) urban and traffic planning and ii) water resource planning.
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