B.E / B.Tech (Fulle time) DEGREE END SEMESSTER EXAMINATION , NOV / DEC 2011

GEOINFORMATICS BRANCH

GI 471 DIGITAL PHOTOGRAMMETRY

TIME : 3 HRS Max. Mark : 100

Part A (10 X 2 = 20)

1. Describe a neat model.
2. Compare analogous and analytical triangulation.
3. Write the working principle of CCD.
4. Give a brief description of RGB Space.
5. What is epipolar geometry?
6. Illustrate a photo coordinate system.
7. List various ways in which the elevation is represented?
8. Describe the advantages of block triangulation.
9. Define scale.
10. What is the effect on Ω on the x,y, z coordinates of the photoplane?

Part B (5 X 16 = 80)

11. i) What are the different types of scanners? How is scan resolution selected for a particular product?

12. a. .i) What are the different DEM acquisition methods? How is Quality of DEM assured?

(OR)

b. i) What is a Zeiss parallelogram? (8)

ii) Compare analogous and analytical triangulation? (8)

13. a. i) List and explain the transformation parameters solved in the relative orientation.

(OR)

b. How are the hard ware requirements of photogrammetric system finalized?

14. a. What are the different ortho data products available?

(OR)

b. Make a chart of various activities involved in photogrammetric mapping.

15. a. How is measurement of fiducial marks done automatically?

(OR)

b. Give an exhaustive list of hard and software specification for digital photogrammetric mapping .