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Reg. No. :

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B.E/ B.Tech DEGREE EXAMINATION , NOV / DEC 2012

SEVENTH SEMESTER

GEOINFORMATICS ENGINEERING

GI 9402 DIGITAL PHOTOGRAMMETRY

TIME : 3 HRS

Max. Mark : 100

Answer All Questions

PART A – (10 X 2 = 20)

1. Describe stereoscopic acuity.
2. What are homologous points?
3. List 4 CCD cameras.
4. Differentiate DEM and DSM.
5. What is the difference between stereo- and mono-plotting?
6. What is the relationship between map scale and contour interval?
7. How are good image points selected for orientation?
8. What does a thalweg indicate?
9. What is a colour wedge and its use?
10. Describe stretched pixel.

PART B – (5 X 16 = 80)

11. Make an elaborate notes on the types of scanners , parameters responsible for the resolution of the image created using scanners and how are the controlled and evaluated?
12. a) Explain the tasks involved in digital photogrammetry work flow and the system and software requirements for them.
(OR)
b) Explain two methods of orthorectification procedure? And list the uses of ortho photos and images
13. a) How is DEM validated internally and externally?
(OR)
b) Explain the type of problems that can occur in the ortho photo production and how are they tackled?
14. a) i) list four major difficulties faced in image differencing during image matching for homologous points. (8)
ii) Describe various ways in which the stereo display is enabled in digital systems. (8)
(OR)
b) Explain the SMI and SMO for orientation process.
15. a)) What are the various secondary data products generated from the DP systems and how are they generated?
(OR)
b) Explain four methods of image matching procedures followed for interior as well as exterior orientation procedure?

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