



DEPARTMENT OF SURVEYING AND GEOINFORMATICS

SCHOOL OF ENVIRONMENTAL TECHNOLOGY

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA.

SEMESTER: 2nd Semester Examination 2017/2018 Session.

COURSE TITLE: Photogrammetry II COURSE CODE: SVG 222

TIME: 2 Hours

INSTRUCTION: Answer Any Four (4) Questions

- 1a) Give a historical brief of Stereoplotters from its invention till date,
 - b) Itemize the Axioms of a projective plane.
 - c) With appropriate equations, define Parallax.
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- 2a) What is Stereoscopic fusion in Photogrammetry?
 - b) List and explain types of Stereoscope.
 - c) Define the Scale of a vertical Photograph under flat and variable terrain.
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- 3a) Define map Scale and its expressions.
 - b) With appropriate diagram, illustrate the geometry of a Vertical Photograph.
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- 4a) Define the following Terms;
 - i) Aerial Photograph (ii) Vertical Photograph (iii) Oblique Photograph
 - b) a) with appropriate diagrams, derive the Coplanarity equation.
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- 5a) What is Rotation of Axes ?
 - b) With appropriate diagrams, derive the Rotation equation.
 - c) What is the average scale ?
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- 6a) With appropriate diagrams, derive the Collinearity equation.
 - b) With appropriate diagrams, derive the Projection equation.