FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF GEOGRAPHY

SECOND SEMESTER 2014/2015 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: **GRY 320**

COURSE TITLE: **Air Photo and Image Interpretation Techniques**

INSTRUCTION: Answer **FOUR** Questions in **ALL**; Question **ONE** and Three Others

TIME ALLOWED: **2HRS 30MINS**

1. (a). Using two consecutive aerial photographs (N1 and N2), discuss the steps involved in viewing a 3-Dimensional features using a lens stereoscope

   (b). Explain how an effective area could be obtained in the centre of the photograph (N2), from the set of consecutive aerial photographs N1, N2 and N3.

   (c). Of what importance is the process of demarcating the effective Areas from a set of multiple photographs?.

2. i). List five features of an aerial photograph that may aid its interpretation

   ii). What factor, in one sentence, determines the Minimum Mapping Unit in aerial photo interpretation?

   iii). What is an effective area in consecutive aerial photographs?

   iv). Define stereoscopy to include interpillary distance

   v). what specific difference exists between the simple Lens stereoscope and the mirror stereoscope?

3. Discuss the strength of aerial photographs as data source over the conventional field surveys. Identify the challenges on embarking on data collection through aerial photography.

4. How, in your own view, can water resources management be enhanced with the aid of aerial photography?

5. Give a detailed account of the applicability of aerial photography in environmental Management. What are the constraints of this application?

6. Discuss the common types of stereoscope, with emphasis on the specific strength and weaknesses of each.