FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

SCHOOL OF SCIENCE AND SCIENCE EDUCATION

DEPARTMENT OF GEOGRAPHY

FIRST SEMESTER 2012/2013 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: REM324P (3units)

COURSE TITLE: Advanced Digital Image Processing

INSTRUCTIONS: Answer question **2** and any other **two (2)** questions of your choice. Credit will be given for the use of specific examples and appropriate diagrams.

TIME ALLOWED: 2 1/2 Hours

1. Discussed in details the elements of image interpretation

2. Discussed the steps involved in digital image processing of Quickbird Satellite image of FUT Minna, Bosso Campus.

3. Expatiate on any four of the following:

   a. Principal Components Analysis (PCA)
   b. Contrast Stretching
   c. Histogram Equalisation
   d. Spatial Filtering
   e. Hue Saturation and Intensity (HSI)

4. Classification techniques are of different types. Distinguish between them.

5. Discuss the factors governing the quality of an Image.