

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

SECOND SEMESTER 2013/2014 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: REM324P (3 Units)

COURSE TITLE: Advanced Digital Image Processing

INSTRUCTIONS: Answer any THREE questions. Credit will be given for the use of specific examples and relevant illustrations.

TIME ALLOWED: 2½ Hours

1. Discuss the steps involved in digital image processing of Quickbird Satellite imagery of FUT Minna, Bosso Campus.
2.
 - a. What is digital Image?
 - b. Discuss the factors governing the quality of an Image
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. Differentiate between digital image processing and visual image interpretation.
5. Classification techniques are of different types. Distinguish between them.