

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

FIRST SEMESTER 2012/2013 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: REM 311 (3 units)

COURSE TITLE: PRINCIPLES AND DEVELOPMENT OF REMOTE SENSING

INSTRUCTIONS: Answer Question one (1) and any other 2 questions of your choice. Credit will be given for the use of specific examples and appropriate diagrams.

TIME ALLOWED: 2 Hours

- 1(a). Define Remote sensing and draw the Electromagnetic Spectrum (EMS)
- (b). Explain the main characteristics of the Electromagnetic Radiation.
2. The atmosphere absorbs and scatters the Radiation passing through it. Explain.
- 3(a). What is a sensor?
- (b). Mention and explain the kinds of sensors we have.
- (c). What are the criteria to select a sensor to be used?
- 4(a). What is RADAR?
- (b). Explain the advantages of RADAR and its functions.
- 5(a). What is an Optical system?
- (b). Mention and explain the two kinds of optical sensors' wave length.