DEPARTMENT OF GEOGRAPHY
SCHOOL OF PHYSICALSCIENCE
FEDERAL UNIVERSITY OF TEHNOLOGY, MINNA

FIRST SEMESTER EXAMINATION 2015/2016
COURSE CODE: REM311
COURSE TITTLE: DEVELOPMENT AND PRINCIPLES OF REMOTE SENSING

INSTRUCTIONS: ANSWER QUESTION NUMBER ONE AND ANY OTHER TWO QUESTIONS.

TIME ALLOWED: 2 HOURS.

1 (a) Define Remote Sensing.

(b). What is a Sensor?

(c). Draw a complete Electromagnetic Spectrum (EMS).

2. With the aid of a diagrams, explain the interactions of electromagnetic radiation from the source back to the sensor.

3. (a). Define optical system and explain its mode of operations.

(b). Spectral bands have no clear cut boundaries. Explain.

4. (a). What is RADAR?

(b). Explain the functions and advantages of RADAR.

(c). With specific examples, enumerate and explain the types of sensors you know

5 Enumerate and explain the criteria to be considered before selecting a sensor for a mission.