FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF SCIENCE AND SCIENCE EDUCATION DEPARTMENT OF GEOGRAPHY

SECOND SEMESTER 2011/2012 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: REM 517P (2 Units)

COURSE TITLE: Human Settlement Applications

INSTRUCTIONS: Answer Qn. (1) and any other three (four questions in all)

TIME ALLOWED: 2 1/2 Hours

- 1. Using any relevant case study, discuss the remote sensing approach to studying Land Use dynamics in Nigeria.
- 2. Outline the differences and linkages between urban and rural areas.
- 3. Briefly discuss the various physical characteristics of peri-urban areas in terms of environmental impact.
- 4. From the experience of any case study carried out, explain how Disease Incidence in suburban areas could be mapped using remotely-sensed data.
- 5. Explain how Middle Urban Population Density can be modeled using remotely-sensed data.
- 6. Discuss how remote sensing and Geographic Information Systems could be applied in the following areas:
 - (i) Automated Mapping/Facilities Management
 - (ii) Electric and Natural Gas Management
 - (iii) Telecommunications Management
 - (iv) Water and Waste Water Utilities Management