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 ½ 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