

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

FIRST SEMESTER 2010/2011 SESSION UNDERGRADUATE EXAMINATION

**COURSE CODE:** REM 313 (2 units)

**COURSE TITLE:** system I(optical system)

**INSTRUCTIONS:** Answer any four (4) questions of your choice. Credit will be given for the use of specific examples and appropriate diagrams.

**TIME ALLOWED: 2 ½ Hours**

1. Using simple diagram, describe the mode of operation of a simple camera
2. Assuming that you are a professional photographer, explain to a group of photographic society members of a secondary school how a colored film is developed.
3. Why are hyperspectral remote sensors similar to spectrometer?
4. Describe optical sensors with examples.
5. Distinguish between a photograph and an image.
6. Briefly explain active and passive sensors.