

**DEPARTMENT OF GEOGRAPHY**  
**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA.**  
**FIRST SEMESTER EXAMINATION, 2011/2012 SESSION.**

**COURSE CODE: REM 313**

**COURSE TITLE: OPTICAL SYSTEM 1.**

**INSTRUCTION: ANSWER ANY FOUR QUESTIONS.**

**TIME ALLOWED: 2 HOURS**

- 1a) Explain optical sensors with examples. **5MKS**
- b) What type of information is recorded by radar? **5MKS**
- 2) How does a photographic sensor record its data? **10MKS**
- 3a) Why are sensors regarded as “eyes” in the sky? **3mks**
- 3b) Describe the sensor on-board NOAA satellite. **7MKS**
- 4) Using a diagram, describe the mode of operation of a simple camera. **10MKS**
- 5) As a member of photographic club, explain to a group of Abu Turab school students on how a colored film is processed. **10MKS**
- 6a) Why are most electronic Remote Sensors referred to as “multi-spectral scanners”. **3MKS**
- 6b) Describe the two mode of scanner’s employed by multi-spectral image. **7mks**