

**Benha University**

**Faculty of Engineering \_Shoubra**

**Surveying Engineering Department**

**Fourth Year**

**Year: 2017/2018**

**Semester: One**

**Remote Sensing and Photo Interpretation**

**Assignment No: 6**

**Multispectral, Thermal, and Hyperspectral Sensing**

1. What is meant by Multispectral Scanner?
2. Write short notes about the Hyperspectral sensors.
3. Define the following terms:
4. Thermal Capacity.
5. Thermal crossovers points.
6. Charge coupled devices (CCD).
7. FLIR Systems.
8. Geostationary Orbit.
9. Sun Synchronous Orbit.
10. Discuss the geometric characteristics of Across-Track scanner imagery.
11. State the different methods used to calibrate thermal scanners and discuss one of these method.
12. What are the important characteristics of a satellite remote sensing system? Discuss these characteristics in case of LandSat 1, 2, and 3.
13. Write in detail about the following:
14. Across-Track Scanning.
15. Along-Track Scanning.