FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

SCHOOL OF ENVIRONMENTAL TECHNOLOGY

DEPARTMENT OF SURVEYING AND GEOINFORMATICS

FIRST SEMESTER EXAMINATION 2018/2019 SESSION

SVG 316: REMOTE SENSING II

ANSWER ANY **FOUR** QUESTIONS. TIME ALLOWED: **2 ½ HOURS**

1.a) Define Remote Sensing.

b) Explain the possible energy interactions with an object or earth surface feature.

c) Which of them useful in remote sensing and why?

2. a) Write on NigeriaSat-1 .

b) Distinguish between High and Low resolutions and give three (3) examples of each.

3. a) Briefly explain how the GPS works.

b) Explain the advantages and disadvantages of the two main remote sensing platforms.

4. a) How does the atmosphere affect the quality of remote sensing?

b) Distinguish between Supervised and Unsupervised classification.

5. a) Explain Digital Image Processing.

b) What are the advantages of digital images if any?

6.a) What are the differences between Polar orbiting and Geostationary Satellites.

a) Explain the considerations necessary before acquiring remote sensing data for any

purpose?