

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF NATURAL RESOURCES MANAGEMENT**

**NARE 352: REMOTE SENSING**

**STREAMS: BSC NARE (Y3S1)**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 04/12/2018**

**11.30 A.M. – 1.30 P.M.**

**INSTRUCTIONS:**

- Answer all questions in section A and any other TWO questions in section B.
- Do not write on the question paper.

1. Match the following satellite systems to their corresponding natural resource areas of observation. (6 marks)

Satellite System	Resources surveyed (observed)
Niger sat 1	
IKONOS	
TIROS (1-9)	
GOES(g) series	
Nimbus 7	
JASON 1	

2. Explain the significance of the information that is recorded on an aerial photograph. (6 marks)
3. Discuss the basic stages of remote sensing. (6 marks)
4. Using a suitable diagram, briefly describe the primary remote sensing region of the Electromagnetic spectrum. (6 marks)
5. Using an appropriate chart, give an elaborate classification of platforms used in remote sensing. (6 marks)

**SECTION B (40 MARKS)**

6. Using suitable examples, explain the various ways in which remote sensing is being applied in various fields for improvement of human welfare. (20 marks)
  7. With a suitable diagram discuss scattering of electromagnetic radiation and show its effect on the atmosphere. (20 marks)
  8. With the aid of diagrams, discuss the relationships between various map sheets (scale) and the coordinate system in map referencing. (20 marks)
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