

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION  
ARTS**

**GEOG 425: REMOTE SENSING**

**STREAMS: BED (ARTS)**

**TIME: 2 HOURS**

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

**11.30 A.M. – 1.30 P.M.**

**INSTRUCTIONS:**

- **Answer question ONE and any other two questions.**
- **Sketch diagrams and examples should be used when necessary.**

- (a) Describe the process of Satellite Earth Atmosphere system remote sensing. (18 marks)
    - (b) Explain SIX approaches of classifying satellites. (12 marks)
  - Assess FIVE applications of remote sensing in the field of resource management. (20 marks)
  - (a) Examine FOUR advantages of remote sensing over aerial photography. (12 marks)
    - (b) Explain FOUR elements that assist in aerial photograph interpretation. (8 marks)
  - Describe the EIGHT stages involved in final generation of top maps from aerial photographs. (20 marks)
  - (a) Describe the FOUR processes of carrying out digital image processing. (12 marks)
    - (b) Explain any FOUR ways by which incoming Electro Magnetic Radiation interacts with ground-atmosphere system. (8 marks)
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