

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

GEOG 433: REMOTE SENSING

STREAMS: B.ED ARTS & B.A PROGRAMME Y4S1

TIME: 2 HOURS

DAY/DATE: FRIDAY 06/12/2019

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- **Answer question ONE and any other TWO questions.**
- **Diagrams, examples and illustrations should be used when necessary to support an answer.**

1. (a) Draw the electromagnetic spectrum and explain portions used for remote sensing. (14 marks)
 - (b) Explain any FOUR advantages of using satellite remote sensing over aerial photography. (8 marks)
 - (c) Describe the THREE types of remote sensing used for Earth observation. (6 marks)
 - (d) What is remote sensing? (2 marks)
2. Trace the historical development of remote sensing since 1859 to 2000's highlighting major milestones in each period. (20 marks)
3. Describe the SEVEN stages carried out when doing satellite images processing. (20 marks)
4.
 - (a) Examine the FOUR resolutions considered when choosing satellite image data. (8 marks)
 - (b) Discuss any FOUR applications of remote sensing in the contemporaries. (12 marks)

5. Examine FIVE ways by which the Electromagnetic Radiation interacts with ground features. (20 marks)
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