

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

IGEMBE CAMPUS

EXAMINATION FOR THE AWARD OF DEGREE  
OF BACHELOR OF EDUCATION ARTS

GEOG 433: REMOTE SENSING

STREAMS: BED (ARTS) LIV BI

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 15/04/2020

8.30 A.M. – 10.30 A.M.

**INSTRUCTIONS: Answer all the questions**

1. (a) Define the following terms:
  - (i) Remote sensing [2 marks]
  - (ii) Radio astronomy [2 marks]
  - (iii) Satellite [2 marks]
  - (iv) Seismology [2 marks]
  - (v) Acoustics [2 marks]
- (b) Describe two types of remote sensing [6 marks]
- (c) Describe the advantages and disadvantages of photographic cameras and satellite [14 marks]
2. (a) Distinguish between the following [6 marks]
  - (i) Radiometric and Spectral resolution
  - (ii) Active and Passive remote sensing
  - (iii) Geostationary and Polar-Orbiting Satellites
- (b) Discuss the importance of remote sensing [14 marks]
3. Trace the major developments in the history of remote sensing [20 marks]

## GEOG 433

4. (a) Define Electromagnetic Spectrum [3 marks]
- (b) Discuss the properties of Electromagnetic Spectrum related to wavelength [8 marks]
- (c) Discuss the effects of atmospheric constituents on solar radiation [9 marks]
5. (a) Discuss five major matter interaction [10 marks]
- (b) Describe the factors that affect the detection and identification of subject/background contrast of satellite imagery [10 marks]
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