

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF ARTS AND BACHELOR OF EDUCATION (ARTS)

GEOG 433: REMOTE SENSING

STREAMS: B.A & Bed (arts) (Y4S1)

TIME: 2 HOURS

DAY/DATE: THURSDAY 01/04/2021

11.30 AM – 1.30 PM

INSTRUCTIONS

- *Answer question one and any other two questions*
- *Illustrations, diagrams and sketches should be used when necessary*

Question one

- (a) State THREE ways by which Electro Magnetic Radiation is generated (3 marks)
- (b) With an aid of a diagram, describe the various components of a passive remote sensing system (21 marks)
- (c) Explain THREE types of remote sensing used for earth observation (6 marks)

Question two

Discuss how incident electromagnetic radiation interacts with target features (20 marks)

Question three

- (a) Describe THREE platforms that can be used for remote sensing (6 marks)
- (b) Explain the FOUR resolutions that are considered when selection of a satellite image (10 marks)
- (c) Explain the difference between “sensor” and “detectors” (4 marks)

Question four

Describe the full electromagnetic spectrum and highlight portions used for earth observation

(20

marks)

Question five

Explain the applications of remote sensing technology today

(20 marks)

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