

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
EDUCATION (ARTS) AND BACHELOR OF ARTS (B.A)**

GEOG 433: REMOTE SENSING STUDIES

STREAMS: B. ED, B.A (Y4S1)

TIME: 2 HOURS

DAY/DATE: MONDAY 27/09/2021

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS

- **Answer question ONE and any other TWO questions**
 - **When necessary use examples and illustration to support you answers**
1. a) Illustrate by use of a diagram the three types of remote sensing applied on earth observation. (12 marks)
b) Explain SIX elements of remote sensing that encompasses the earth observation mission. (12 marks)
c) Distinguish between Active and Passive remote sensing. (6 marks)
 2. Trace the historical development and milestones in the field of remote sensing since 1800's (20 marks)
 3. a) Explain the THREE reflectors characteristics of earth surface features that are detected by sensors. (6 marks)
b) Discuss main process by which incident electro magnetic radiation interacts with Earth surface features. (14 marks)
 4. Using a flow diagram, outline and explain the process followed when generating a topo map from an ortho Aerial photograph. (20 marks)

5. Examine applications of remote sensing in the advancement of spatial knowledge in natural resource management in counties in Kenya. (20 marks)
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