



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

**A. M. E. C. E. A**

**MAIN EXAMINATION**

P.O. Box 62157  
00200 Nairobi - KENYA  
Telephone: 891601-6  
Fax: 254-20-891084  
E-mail: academics@cuea.edu

**JANUARY – APRIL 2014 TRIMESTER**

**FACULTY OF ARTS AND SOCIAL SCIENCES**

**DEPARTMENT OF GEOGRAPHY**

**SCHOOL FOCUSED PROGRAMME**

**GEO 401: REMOTE SENSING AND AERIAL PHOTOGRAPHS**

**Date: APRIL 2014**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions**

- Q1. a) Differentiate between the following concepts:
- i) Spectral resolution and temporal resolution. **(2 marks)**
  - ii) Active remote sensing and passive remote sensing. **(2 marks)**
- b) Using an illustration describe the electromagnetic spectrum. **(6 marks)**
- c) Identify **TWO** advantages and disadvantages of air craft – camera systems in geographical study. **(4 marks)**
- d) Explain the use of true and false colours in satellite imagery. **(6 marks)**
- e) Explain any **FIVE** techniques used in the analysis of aerial photographs. **(10 marks)**
- Q2. Discuss the processes involved in acquiring an aerial photograph to be used in wildlife study. **(20 marks)**
- Q3. Account for the lower amount of electromagnetic radiation that reaches the earth surface. **(20 marks)**

- Q4. Discuss any **FIVE** significances of remote sensing in agricultural activities. **(20 marks)**
- Q5. Discuss the process involved in remote sensing systems. **(20 marks)**

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