



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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**MAIN EXAMINATION**

**JANUARY – APRIL 2019 TRIMESTER**

**FACULTY OF ARTS AND SOCIAL SCIENCES**

**DEPARTMENT OF HUMANITIES**

**PART TIME PROGRAMME**

**GEO 401: REMOTE SENSING AND AERIAL PHOTO INTERPRETATION**

**Date: APRIL 2019**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and any other TWO Questions**

- Q1. a) i) Define the terms aerial photography **(2 marks)**  
ii) Explain the main function of stereoscope in aerial photography **(3 marks)**
- b) Distinguish between the following:  
i) Spatial resolution and temporal resolution **(2 marks)**  
ii) Instantaneous field of view and swath **(2 marks)**
- c) i) Examine the process of ground truthing **(3 marks)**  
ii) Examine the role of remote sensing in urban planning **(8 marks)**
- Q2. a) List any **four** features on an aerial photograph. **(8 marks)**  
b) Explain scale variations on aerial photographs and its effects. **(12 marks)**
- Q3. Assess the historical development of remote sensing technology **(20 marks)**
- Q4. i) Explain the weaknesses of a camera as a sensor. **(4 marks)**  
ii) With examples, evaluate the contribution of aerial photography in Kenya. **(16 marks)**

- Q5. i) Using an illustration describe the electromagnetic spectrum.  
ii) Explain the significance of any four components above

**(8 marks)**  
**(12 marks)**

**\*END\***