



# **KISII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS**

### **FOURTH YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF ARTS IN GEOGRAPHY**

**FIRST SEMESTER, 2021/2022**

**(FEBRUARY - JUNE, 2022)**

### **GEOG 425: REMOTE SENSING**

**STREAM: Y4 S1**

**TIME: 2 HOURS**

**DAY:**

**DATE:**

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#### **INSTRUCTIONS:**

- 1. Do not write anything on this question paper.***
- 2. Answer Question ONE (Compulsory) and any other TWO Questions.***

#### **QUESTION ONE**

- 1.1 Write notes on the interaction of electromagnetic radiation with the earth's surface. [10 Marks]
- 1.2 Elaborate on the history of remote sensing, focussing on the major milestones. [20 Marks]

#### **QUESTION TWO**

Aerial photography is a powerful tool in decision making. Discuss this statement with five examples. [20 Marks]

#### **QUESTION THREE**

Explain the various techniques used in image rectification and restoration. [20 Marks]

#### **QUESTION FOUR**

- a) Elaborate on the types of remote sensing platforms [10 Marks]
- b) Discuss how digital images are acquired. [10 Marks]

#### **QUESTION FIVE**

Discuss the distinction between supervised and unsupervised image classification. [20 Marks]