



# **GRETSA UNIVERSITY - THIKA**

## **SPECIAL/SUPPLEMENTARY EXAMINATIONS MAY-AUGUST 2023 SEMESTER**

### **BACHELOR OF EDUCATION (ARTS)**

**COURSE CODE: GEOG 301**

**COURSE TITLE: REMOTE SENSING**

**DATE:**

**TIME:**

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#### **INSTRUCTIONS TO CANDIDATES**

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

**CAUTION:** *All exam rooms are under CCTV surveillance during the examination period.*

## **SECTION A: COMPULSORY**

### **Question One**

- a) Examine the major development in the history of remote sensing. **[10 marks]**
- b) Name and differentiate various types of resolutions in remote sensing **[10 marks]**
- c) Discuss the application of remote sensing technology in natural resources management **[10 marks]**
- d) State and explain the types of interaction between energy and matter **[10 marks]**

## **SECTION B: ANSWER ANY THREE QUESTIONS**

### **Question Two**

- a) Examine the questions that Geographic Information System (GIS) must answer. **[10 marks]**
- b) Differentiate various types of sensors used in remote sensing **[10 marks]**
- a)

### **Question three**

- a) Explain the application of remote sensing in agriculture in developed countries. **[10 marks]**
- b) Explain the importance of Geographical information system (GIS) in the study geography **[10 marks]**

### **Question Four**

- d) a) Explain the major types of atmospheric scattering caused by environment. **[10 marks]**
- b) Examine the importance of remotely sensed data in environmental and natural hazard monitoring **[10 marks]**

**Question five**

a) Describe the uses of remote sensing technology in vegetation and water resources

**[10 marks]**

b) Describe the processes involved in interaction between atmosphere and electromagnetic radiation **[10 marks]**