

# TECHNICAL UNIVERSITY OF MOMBASA

## FACULTY OF APPLIED AND HEALTH SCIENCES

## DEPARTMENT OF ENVIROMENT & HEALTH SCIENCES

## **UNIVERSITY EXAMINATION FOR:**

## DIPLOMA IN ENVIRONMENTAL SCIENCE.

## **DES /YEARII/SEMESTER1**

## **AES 2202: INTRODUCTION TO GIS AND REMOTE SENSING**

#### END OF SEMESTER EXAMINATION

#### **SERIES: AUGUST 2018**

## TIME: 2 HOURS

*Instructions to Candidates* This paper consists of FIVE questions Answer question ONE (COMPULSORY) and any other TWO questions. *This paper consists of two printed pages. Mobile phones are NOT allowed in the examination room* 

#### **Question One (30 Marks)**

a. Define the following terms:

	i.	A "geographic information system" (GIS)	(1 mark)
	ii.	Aerial survey	(1 mark)
	iii.	Vertical photography	(1 mark)
b.	Outline	FIVE questions that can be answered using a GIS	(5 marks)
c.	Describ	e FIVE geographic information that are integrated by a GIS	(5 marks)
d.	Outline FIVE components of remote sensing (5		
e.	List the different stages of Remote sensing (5		
f.	List FOUR applications of aerial photography (4 n		
g.	Outline	the limitations of aerial photographs	(3 marks)

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# Question Two

Discuss FOUR major parameters of a sensing system	(15 marks)		
Question Three			
Discuss different applications of remote sensing in Kenya.	(15 marks)		
Question Four			
Discuss the pros and cons of remote sensing.	(15 marks)		
Question Five			
Discuss the common functions of GIS software's.	(15 marks)		