



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ENVIRONMENTAL SCIENCE.

DES /YEARII/SEMESTER I

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. Geographic Information **(1 mark)**
 - ii. Remote sensing **(1 mark)**
 - iii. Ground truthing **(1 mark)**
- b. Differentiate between passive and aerial remote sensors **(2 marks)**
- c. Explain FOUR components entailed in the definition of a GIS **(5 marks)**
- d. Outline the benefits of using GIS and remote sensing in environmental management. **(4 marks)**
- e. Outline FOUR contents of Geographic information. **(4 marks)**
- f. Outline Five Government Functions that Uses Geographic Information. **(5 marks)**
- g. Outline FOUR major parameters of a sensing system. **(4 marks)**

h. List FIVE advantages of remote sensing. **(3 marks)**

Question Two

Discuss the components of remote sensing. **(15 marks)**

Question Three

Discuss different applications of remote sensing. **(15 marks)**

Question Four

Discuss the different stages of remote sensing. **(15 marks)**

Question Five

Discuss the applications of aerial photography **(15 marks)**