



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE
OF BACHELOR OF ARTS WITH INFORMATION TECHNOLOGY**

CITY CAMPUS

PDM 124: INTRODUCTION TO REMOTE SENSING

Date: 25th April, 2016

Time: 2.00 - 4.00pm

INSTRUCTIONS:

- **Answer Question ONE and any other TWO Questions.**



QUESTION ONE (30 MARKS)

- a) Define remote sensing (2 marks)
- b) Using a diagram, discuss the concept of remote sensing (10 marks)
- c) Discuss two main types of sensors (4 marks)
- d) Discuss the characteristics of sensors (8 marks)
- e) Discuss the types of remote sensing (6 marks)

QUESTION TWO (20 MARKS)

- a) What is the difference between photographs and satellite images? (2 marks)
- b) Discuss the various platforms used for remote sensing (8 marks)
- c) Discuss the digital image classification (10 marks)

QUESTION THREE (20 MARKS)

Discuss RADAR sensors (20 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss radiometric and geometric distortions in images acquired through remote sensing. (10 marks)
- b) Discuss the advantages of microwave remote sensing technology for data collection (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss any two types of imaging systems used in remote sensing. (10 marks)
- b) Discuss any five visual image interpretation elements (10 marks)

QUESTION SIX (20 MARKS)

Discuss using examples, the potential areas of application of remote sensing in disaster management (20 marks)