



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2014/2015

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF MASTER OF ARTS IN MONITORING AND
EVALUATION
(CITY CAMPUS)

PME 833: GEOGRAPHIC INFORMATION SYSTEM

Date: 24th March 2014

Time: 5.30 - 8.30 p.m.

INSTRUCTIONS:

- Answer Question ONE and any other THREE questions.



PME 833: GEOGRAPHIC INFORMATION SYSTEM

Answer question ONE and any other three questions

1. A project analyzing the impact of settlements encroachment into the forest reserve applied GIS in the analysis. Use this information to answer question 1 and 2.
 - a) Explain the data they used in accomplishing this exercise (3 marks)
 - b) Explain the process of geo-referring the maps for analysis (5 marks)
 - b) Discuss the advantages and disadvantages of the data they used in (4marks)
 - c) In this exercise discuss why it is necessary to geo-refer and keep the geo-reference error to less than 1 (3 marks)
2. Evaluate the role of GIS and remote sensing in the monitoring and evaluation of this forest reserve (15 marks).
3. Using diagrams represent the overlay functions applied in raster and vector analysis GIS (15 marks)
4. a) Discuss the surfaces used in transforming the earth's surface onto a flat surface (10 marks)
b) Discuss the characteristics of these surfaces in (a) (5 marks)
5. Discuss the factors that can influence the visualization of the final output in GIS (15 marks)
6. Illustrate the representation of geographical phenomena in GIS (15 marks)