



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE
OF BACHELOR OF ARTS IN URBAN AND REGIONAL PLANNING
WITH INFORMATION TECHNOLOGY**

CITY CAMPUS

PUR 125: COMPUTER AIDED CARTOGRAPHY

Date: 27th April, 2016

Time: 9.00 - 11.00am

INSTRUCTIONS:

- **Answer Question ONE (Compulsory) and any other TWO Questions.**
- **Sketches and diagrams should be used whenever appropriate**



1. Given a map of Kisumu East 116/2 scale 1:50 000 answer the following questions
 - a) Identify any three natural resources in the area (9 marks)
 - b) Identify three population patterns on the map (9 marks)
 - c) Explain the causes of the patterns you have identified in b (9 marks)
 - d) A map at a scale 1:50 000 is compared to a map scale of 1:1 000 000 describe any two differences (3 marks)
2.
 - a) Discuss the representations of geographical phenomena on digital maps
 - b) Explain the quantitative and qualitative representations of point features on maps
3. Discuss the influence of scale on map representations
4.
 - a) Given a map at the scale of 1:50 000 two shops are identified 10 cms apart the same two shops are identified on another map 5 cms apart. Derive the scale of the second map
 - b) Explain which of the two maps can be used for more accurate representation of features
 - c) Discuss the data measurement scales that can be used to classify information on the maps
5.
 - a) Describe the process of geo-referencing a map
 - b) Explain why creating layers is important in mapping
 - c) Describe how you would represent quantitative line data
6. Discuss the merits and demerits of using computer assisted mapping for planning