



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF ARTS IN URBAN & REGIONAL
PLANNING WITH INFORMATION TECHNOLOGY
(CITY CAMPUS - WEEKEND)**

PUR 125: CARTOGRAPHY

Date: 12th April, 2014

Time: 2.00 - 4.00 p.m.

INSTRUCTIONS:

- Answer Question ONE (COMPULSORY) and any other TWO questions.

PUR 125: CARTOGRAPHY

Answer question ONE and any other TWO

Sketch maps and diagrams should be used whenever they serve a purpose

1. Cartography students constructed a digital tourist map of the western circuit of Kenya. Use this information to answer the following questions
 - a) Explain the visual variables they used to display this map (15 marks)
 - b) Describe the data structures they used in representing this information on the digital map (9 marks)
 - c) Explain three applications of topographical and thematic maps (6 marks?)
2. Discuss the factors that affect visualization of maps (20 marks)
3. Explain method of representing quantitative area information on maps 12 marks
4. Describe the data measurement scales used in maps (20 marks)
5. On a vertical aerial photograph two road junctions are identified 20 cm apart. The same two road junctions are identified on a map 10 cm apart at the scale of 1:20 000 use this information to answer the following
 - a) Calculate the scale of the aerial photograph (4marks)
 - b) Explain the elements used in identifying features on the aerial photograph (12 marks)
 - c) Describe the scales used in representing features on maps (3 marks)
6. Using a scale of your own choice describe the methods you would use in fitting information from the large scale to a small scale map (20 marks)