

# 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 - DAY)

#### PUR 125: COMPUTER AIDED CARTOGRAPHY

Date: 23rd July, 2014

Time: 2.00 - 4.00 p.m.

#### INSTRUCTIONS:

- · Answer Question ONE and any other TWO questions.
- · Sketch maps and diagrams should be used wherever they serve the purpose.

ISO 9001:2008 CERTIFIED



### PUR 125: COMPUTER AIDED CARTOGRAPHY

#### Answer question ONE and any other TWO

## Sketch maps and diagrams should be used wherever they serve the purpose

- a) Using diagrams illustrate the surfaces that transform a globe to a flat surface
  9 marks
  - b) Illustrate the transformations on a flat surface

9 marks

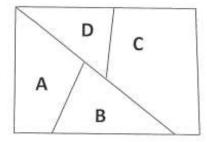
- c) Explain why it is necessary to keep the geo-reference accuracy at 1 or less than 1 2 marks
- d) Explain three visual variables used in representing quantitative information 6 marks
- e) A map at a scale 1:50 000 is compared to a map 1:10000000 describe any two differences because of the difference in scale 4 marks

	Area A	Area B	Area C	Area D
Population	100000	2000000	400000	20000
Area in sq Kms	150	400	600	240

a) Using the Information given above construct a population distribution map using point symbol to show population densities of the given areas

16 marks

b) Giving two reasons explain why we classify data in mapping 4marks



- a) A digital map was constructed for school going children in primary school in ILLWIS showing changes in vegetation cover in Kisumu country
  - b) Describe the sources of data used in constructing the map 5 marks
  - c) Explain the process of designing the map

15 marks

4. a) Explain dasymetric and Choropleth mapping

6 marks

b) Describe Isoline mapping

4 marks

c) Compare qualitative and quantitative maps in communicating information
10 marks

a) Discuss the methods used in achieving clarity and legibility in digital maps when the scale of a map is reduced to a scale of 1:10000000

20 marks

 b) Explain the merits and demerits of using GPS and remote sensing data for creating digital maps
20 marks