



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

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

CITY CAMPUS

PGS 122: CARTOGRAPHY AND GEOVISUALIZATION

Date: 22nd April, 2016

Time: 2.00 - 4.00pm

INSTRUCTIONS:

- **Answer THREE Questions. Question ONE is compulsory.**
- **Sketches and diagrams should be used whenever appropriate**



1. Given the map of Kisumu West 116/1 scale 1:50 000 answer the following questions:
 - I. Describe two influences of topography on human settlements (6 marks)
 - II. Identify three natural resources in this area (9 marks)
 - III. Explain two methods other than the one used that can be used in representing settlements (6 marks)
 - IV. Discuss four differences between remote sensing images and maps (9 marks)
2. Explain the factors that influence map visualization (20 marks)
3. Discuss the quantitative representations of line and area information (20 marks)
4. Assess the role of web mapping in developing countries (20 marks)
5. Discuss the challenges in data acquisition for mapping (20 marks)
6. Students designed a map for young children showing environmental hazards
 - a) Discuss the process of designing this map (8 marks)
 - b) Explain the representations they used for the features (8 marks)
 - c) Discuss the scale they used for representing the information (4 marks)