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 123: CONCEPTS OF SPATIAL ORGANIZATION

Date: 18ᵗʰ April, 2016

Time: 9.00 - 11.00am

INSTRUCTIONS:

- **Answer Question ONE (Compulsory) and any other TWO Questions.**

Question 1

The capital city of an African country has a population of 10 million people.

a) Assuming a normal distribution according to the Rank Size Rule, determine the population of the fifth city in the country's urban hierarchy.
[2 marks]

b) If the population of the country's second largest city is actually one million, comment on the primacy of the capital city.
[3 marks]

c) Discuss the practical implications of the size of the capital city, vis-à-vis the second largest city, for the country's national development.
[10 marks]

d) Examine the main factors that are likely to determine changes in the capital city's population over time.
[15 marks]

Question 2

Examine the use of the Central Place Theory as a tool in analysing the Kenyan human settlement system.
[20 marks]

Question 3

a) Distinguish between formal and functional regions.
[5marks]

b) Using appropriate examples, discuss the main criteria used in defining and delimiting urban areas.
[15 marks]

Question 4

Identify and discuss the main factors that determine the spatial distribution of industrial manufacturing activity in Kenya.
[20 marks]

Question 5

Using bid-rent functions, account for the spatial structure of land uses within Kisumu city.
[20 marks]

Question 6

Discuss the following concept pairs as used in spatial organization.

i.   Monocentric vs. multiple nuclei urban forms

ii.   Spatial differentiation vs. spatial interaction

iii. Threshold vs. range

iv. Selective dispersal vs. selective concentration   **[20 marks]**