

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2013/2014**

THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS IN URBAN & REGIONAL PLANNING WITH INFORMATION TECHNOLOGY

(CITY CAMPUS - DAY)

PUR 323: APPLICATION GIS

Date: 16th 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 as deemed necessary.



- Mau forest has been facing serious encroachment and destruction problem.
 How can GIS help in monitoring spatial temporal changes resulting from these problems? [20 marks]
- You have been hired as a GIS specialist to help the county government of Homabay in formulating the County Spatial Plan. Explain how you can apply GIS in this task. [20 marks]
- Solid waste management is a big challenge in Kisumu City. Explain how
 you can use GIS in finding an optimal site for waste disposal. [20 marks]
- Land fragmentation is a major problem facing Kakamega County. Discuss how physical planners can use GIS in addressing this challenge. [20 marks]
- Most cities in Kenya face serious urban sprawl challenges especially slum proliferation. Using Nairobi as a case city, explain the steps you can use GIS to address this.
 [20 marks]
- GIS is still not widely used in Kenya's urban planning domain, discuss five challenges that has led to this.
 [20 marks]