

## MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

## FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF MASTER OF ARTS IN PROJECT PLANNING & MANAGEMENT

(HOMA BAY CAMPUS)

## APP 808/PPM 833: INTRODUCTUION TO GEOGRAPHIC INFORMATION SYSTEMS

Date: 7th December, 2013

Time: 11.00 a.m. - 2.00 p.m.

## INSTRUCTIONS:

- Answer ANY FOUR questions.
- Sketch maps and diagrams should be used as deemed necessary.

- a. Explain the difference between raster and vector data models used to represent maps in a GIS. [10 marks]
  - b. How does spatial data differ from other types of data? [10 marks]
- With the aid of diagrams, describe three (3)ways a GIS system represents geographic information. [15 marks]
- Discuss key marginal information awell-designed GIS map should contain [15 marks]
- Using relevant examples, discuss how GIS can be applied in project planning and management. [15 marks]
- Describe five (5) spatial data analysis functions you can perform using GIS. [15 marks]

6.

a. Differentiate between spatial and aspatial data

[5 marks]

b. Discuss five sources of GIS data

[10 marks]