



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2013/2014**

**SECOND YEAR FIRST SEMESTER EXAMINATIONS FOR THE  
DIPLOMA IN MONITORING AND EVALUATION  
(HOMA BAY CAMPUS)**

**PDME 0125: INTRODUCTION TO GEOGRAPHIC  
INFORMATION SYSTEMS FOR MONITORING AND  
EVALUATION**

*Date: 30<sup>th</sup> March, 2014*

*Time: 11.00am - 1.00pm*

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**INSTRUCTIONS:**

- Answer QUESTION ONE and any other TWO questions.

**PDME 0125: INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS FOR M & E (G.I.S)**

**QUESTION 1.**

1 (a) Briefly explain the term G.I.S (10 Marks)

1 (b) Describe Geometric Networks in G.I.S (10 Marks)

1 (c) Explain the following terms (10 Marks)

- i. Union overlays
- ii. Intersect overlays

**QUESTION 2.** Explain 3 spatial analysis function you can perform using G.I.S.

**QUESTION 3.** Discuss the two major functions of **Cartographic work**: (20 Marks)

**QUESTION 4.** Explain how GIS can be used to analyze the impacts of climate change. (20 Marks)

**QUESTION 5.** Explain the role of G.I.S in a project management system. (20 Marks)

**QUESTION 6.** Discuss how **data accuracy** is a major problem in digital geographic data in G.I.S. (20 Marks)