



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR
THE DEGREE OF BACHELOR OF ARTS IN URBAN &
REGIONAL PLANNING WITH INFORMATION TECHNOLOGY
(CITY CAMPUS – WEEKEND)**

**PUR 215: INTRODUCTION TO GEOGRAPHIC
INFORMATION SYSTEM**

Date: 19th July, 2014

Time: 9.00 – 11.00 a.m.

INSTRUCTIONS:

- Answer Question ONE and any other TWO questions.

**PUR 215: INRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM
(GIS)**

Answer question ONE and any other TWO

Sketch maps and diagrams should be used wherever they serve the purpose

1. a) Describe the functions of data bases in GIS **14 marks**
b) Discuss the methods of representing features in GIS **6 marks**
c) Describe fields and objects **6 marks**
d) Explain the importance of geo-referencing **4 marks**
2. a) Using illustrations explain raster, arithmetic and conditional analysis **20 marks**
3. a) Discuss the influence of scale on GIS outputs **10marks**
b) Describe the merits and demerits of rater and vector representations **10 marks**
4. Students developed a relational data base in GIS for tracking student performance in the university. Construct a data base they could have developed **20 marks**
5. Using illustrations explain vector data cleaning operations in GIS **20 marks**
6. a) Evaluate the use of maps as sources of information in GIS **5 marks**
b) Explain the importance of creating layers in GIS operations **5 marks**
c) Illustrate vector clip and overwrite in vector analysis **10 marks**