



MASEÑO UNIVERSITY

UNIVERSITY EXAMINATIONS 2012/2013

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

PUR 216: COMPUTER ASSISTED CARTOGRAPHY

Date: 17th July, 2013

Time: 8.30 – 10.30 a.m.

PUR 216: COMPUTER ASSISTED CARTOGRAPHY

(MAIN CAMPUS)

Question ONE is compulsory and any other two

Sketch maps and diagrams should be used whenever appropriate

1. Planning students developed a map showing the proposed zoning of Nyalenda informal settlements for development. Use this information to answer the following:
 - (a) Describe the process of designing this map (8 marks)
 - (c) Explain the visual variables they used to represent this information (6marks)
 - (d) Discuss the data measurement scales used in map representation (8marks)
 - (e) Explain the type of data they used to achieve the exercise (8 marks)
2. In developing a map data is acquired from different sources
 - (a) Explain five challenges in getting this data (15 marks)
 - (b) Describe space segment in GPS (5 marks)
3. Explain the following in relation to remote sensing images
 - Spatial resolution (4marks)
 - Temporal resolution (4 marks)
 - Radiometric resolution (4marks)
 - Passive and active remote sensing (8 marks)
4. Discuss “generalization” in mapping (20marks)
5. Explain point, line and area mapping in computer assisted cartography (CAC) (20marks)
6. Describe the qualities of a good data base for computer assisted cartography (20 marks)