



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FOURTH YEAR SECOND SEMESTER EXAMINATION FOR THE
DEGREE OF BACHELOR OF ARTS WITH INFORMATION
TECHNOLOGY**

CITY CAMPUS

PGS 416: CRIME MAPPING AND ANALYSIS

Date: 27th April, 2016

Time: 9.00 - 11.00am

INSTRUCTIONS:

- **Answer Question ONE and any other TWO Questions.**



1. a) Write short notes on the following (10 marks)
 - i) Crime mapping
 - ii) Crime prevention
 - iii) Strategic crime analysis
 - iv) Criminological theory
 - v) Limbic system
- b) The main function of crime analysis is to support law enforcement endeavors. State the FOUR goals of Crime Analysis. (4 marks)
- c) Crime is a multifaceted concept that can be defined in legal and non-legal sense. Discuss (4 marks)
- d) With the aid of a diagram, explain the different rings of the concentric zone model. (12 marks)
2. a) Several types of mapping are used routinely in crime analysis. Explain the different types of crime mapping. (10 marks)
- b) Discuss the SARA approach to problem solving. (10 marks)
3. a) Discuss the applications of GIS in crime analysis. (10 marks)
- b) State the THREE basic facts about crime pattern (6 marks)
- c) State the FOUR conditions that must be met for a 'successful' crime event. (4 marks)
4. Discuss the steps followed in measuring geocoding accuracy. (20 marks)
5. a) Explain the theoretical principles behind geographic profiling. (10 marks)
- b) French cartographer Jacques Bertin recognized that human perception of cartographic symbols was determined by six main variables. Explain any FIVE of these variables. (10 marks)
6. a) The production cycle for capturing and using information for policing and services for crime reduction involves five stages. Explain these stages and how they impact on the crime mapper. (10 marks)
- b) With aid of a diagram, discuss the crime analysis model. (6 marks)
- c) Differentiate between Tactical crime analysis and Criminal investigative analysis. (4 marks)