



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2018/2019
(CITY CAMPUS)

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF
MASTER OF SECURITY MANAGEMENT AND POLICE STUDIES

KPS 813: APPLIED RESEARCH TECHNIQUES IN CRIME

DATE: Wednesday, 27th March 2019

TIME: 5.30 p.m. - 8.30 p.m.

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

1. (a) Distinguish between the following: (6 marks)
- (i) Causal research design and exploratory research design.
 - (ii) Inductive reasoning and deductive reasoning in applied research.
 - (iii) Coding and memoing of crime-related data.
- (b) Comment on the following statement 'It is a compliment for researchers to be called skeptics.' (4 marks)
- (c) Assume that the United Nations Office on Drugs and Crime (UNODC) is interested in understanding the crime rate in Africa, and commissioned a study in the following countries. Study the data set and answer the questions that follow:

Sub-region	Country	Rate per 100,000 population	Latest Year with crime data	Source of data
Eastern Africa	Ethiopia	6.4	2004	Interpol
Eastern Africa	Kenya	3.6	2008	National Police
Western Africa	Mauritius	3.8	2008	UN-CTS
Eastern Africa	Rwanda	4.2	204	Interpol
Eastern Africa	Seychelles	8.4	2006	UN-CTS
Eastern Africa	Somalia	Data not available	2009	
Northern Africa	Uganda	8.7	2008	UN-CTS
Eastern Africa	Tanzania	7.7	2004	Interpol
Eastern Africa	Zimbabwe	8.7	2004	Interpol
Northern Africa	Algeria	0.6	2006	UN-CTS
Northern Africa	Egypt	0.8	2008	UN-CTS
Northern Africa	Libyan	2.2	2003	UN-CTS
Western Africa	Nigeria	151.3	2020	NGO
Northern Africa	Sudan	Data not available		UN-CTS

- (i) Identify the nominal variables in the data set. (2 marks)
 - (ii) Identify any **four** errors in the data set and describe how each one of them can be corrected. (4 marks)
 - (iii) Cross-tabulate the source of data variable with the sub-region variable and describe the emerging pattern(s). (5 marks)
- (d) Describe THREE simple linear regression relationships in causative research. (9 marks)

2. A County Commissioner in one of Kenya's 47 counties received the following information regarding incidences of cattle rustling in all the nine sub-counties under his command. Calculate the standard deviation and variance.

12, 32, 64, 76, 88, 60, 32, 26, 10 (20 marks)

3. Assume that the Kenya Police Service (KPS) is interested in ascertaining whether or not certain areas in Nairobi were more or less susceptible to certain types of crime. Discuss how the following research methods may be used by a researcher to help KPS achieve her objective. (20 marks)

- (i) Case study
- (ii) Ethnography
- (iii) Grounded theory

4. Discuss any FOUR skills that a researcher collecting qualitative data in a crime-related study should possess in order to collect meaningful data. (20 marks)

5. Following the unfortunate attack along Riverside drive, Nairobi, by terrorist, some suspects were arrested by the Police. The ages of those arrested are presented below:

Subject	1	2	3	4	5	6
Age	40	7	22	39	54	66

- (i) Using the z-scores determine the number of outliers in the dataset. (10 marks)
- (ii) Giving four reasons, explain any FOUR possible causes of outliers in crime-related research. (10 marks)