



# MURANGA UNIVERSITY COLLEGE

(A constituent College of Jomo Kenyatta University of Agriculture & Technology)

**MAIN CAMPUS**

**ORDINARY UNIVERSITY EXAMINATIONS**

**2014/2015 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF  
MASTER OF PUBLIC ADMINISTRATION**

**COURSE CODE: BCP 4108**

**COURSE TITLE: STATISTICS FOR RESEARCHERS**

**DATE: 27<sup>th</sup> August 2015**

**TIME: Two Hours**

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## INSTRUCTIONS TO CANDIDATES

There are **FIVE** questions in the paper  
Answer question **One** and **any three** questions  
All workings must be shown clearly

MRUC observes ZERO tolerance to examination irregularities

This Paper Consists of 2 Printed Pages. Please Turn Over. 

## Question One

A firm carried out a study to assess the knowledge, attitude and practice towards HIV/AIDS prevention among University students in Kericho. During data processing the following table as prepared.

### REASONS FOR NOT BEING INVOLVED IN PREMARITAL SEX

Reason					
Risks avoidance	8	5	X	X	X
Student	5	5	X	X	X
No Lover	4	1	X	X	X
Religious	2	2	X	X	X
Forbidden	3	1	X	X	X
Not ready yet	1	2	X	X	X
Missing value	1		X	X	X
Total	X	X	X	X	X

Source: field data (2012)

#### Required

- Complete the table by filing values of X and discuss the findings **(4 Marks)**
- Draw a pie chart (using total values) to present the data. Give at least two disadvantages of the method **(3 Marks)**
- Draw a group bar graph from the data and give comments. Indicate the advantages and disadvantages of using group bar graph to display the information. **(3 Marks)**
- Draw a compound bar graph to indicate the above data. Discuss the findings displayed.
- Using the drawn grouped bar graph and compound bar graph explains the differences between the two. **(5 Marks)**

## Question Two

The following data was obtained from a research on people's attitude towards the introduction of multiparty system in country X as one ay of good governance

Age group	Under 30	30-45	46-60	61 and above
Agree	20	10	4	3
No opinion	3	10	10	2
Disagree	3	5	21	10

#### Required:

- Write a suitable topic and one research hypothesis on which the above study was built **(5 Marks)**
- Analyze the above data by using percentages. **(5 Marks)**
- What do you conclude from the analysis. **(5 Marks)**

### Question Three

“ABC a stock broker in Kenya recently hit the news headlines as having been put under receivership”.

You are required to outline and briefly explain the main components of a research proposal using the foregoing statement. **(15 Marks)**

### Question Four

- i) Given the following research topic. “The effect of social loafing for group performance in organisations”

#### Required

- a. Draft the statement of the problem **(3 Marks)**
  - b. Write three research objectives **(3 Marks)**
  - c. Write three research questions **(2 Marks)**
  - d. Write three hypotheses **(2 Marks)**
- ii) Study this research topic titled “Causes of fraud in government organizations in Kenya “and answer the following questions;
- a. Explain features of objectives of research and formulate three specific research objectives you would like to achieve from the above topic. **(2Marks)**
  - b. From the formulated research objectives above, write three null hypotheses and three alternative hypotheses. Explain characteristics and significance of research hypotheses. **(2 Marks)**
  - c.
  - d. In one paragraph explain why researchers are advised to write both null hypothesis and alternative hypothesis when testing hypothesis. **(1 marks)**

### Question Five

Explain the following concepts as used in research:

- a. Sampling and sample size **(3 Marks)**
- b. Population and element **(3 Marks)**
- c. Data collection instruments **(3 Marks)**
- d. Research design and data analysis tools **(3 Marks)**
- e. One of the sampling processes is to determine the sample size to be used in research. Briefly explain what you are supposed to consider when deciding on a sample size to be used in your study. **(3 Marks)**