

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2014/2015

**EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY**

**TID 3100: RESEARCH METHODOLOGY**

**DATE: AUGUST 2015 TIME: 3 HOURS**

**INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS.**

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**QUESTION ONE (25 MARKS)**

You have been requested to carry out a study in a public health issue of great importance in Nairobi County. State what such a problem might be and formulate a brief proposal describing how the said issue would be investigated.

**QUESTION TWO (25 MARKS)**

The visit by President Obama to Kenya in July 2015 was a great eye-opener for research scientists in Kenya and the rest of Africa. Do you agree. Briefly discuss, citing two relevant examples. (25 marks)

**QUESTION THREE (25 MARKS)**

A study must be conducted in a community to investigate the use of high levels of food preservatives in bottled juices, allegedly linked with abortions among pregnant women in a particular community.

(a) State (if necessary) the hypothesis for this study, and explain why this should be so. (2 marks)

(b) What would be the relevant research questions? (3 marks)

(c ) State the main and specific objectives for this study. (5 marks)

(d) Describe the study design and give reasons for the selection of the design. (5 marks)

(e) Describe the study population and sampling procedure. (5 marks)

(f) Explain the tools that you would employ to collect data for this study and give the justification for use of tools. (5 marks)

**QUESTION FOUR (25 MARKS)**

A national Micronutrient study is to be conducted to assess the extent and distribution of micronutrients deficiencies in the county. This information is necessary for stakeholders in the promotion of maternal and child health including the necessary actions that must be taken by existing programs in mitigating these deficiencies. You are required to write a proposal to:

(a) Find out the extent of the problem.

(b) Find out whether the community perceives micronutrient deficiencies as a health problem.

(c) Find out whether the use of micronutrient supplements has made any notable improvements in deficiency status in the county.

(d) For each of a, b and c above, state the type (s) of study design and data collection methods you would propose to use.

(e) From whom (or from what) would you collect the data required for each of the design in(d) above?

**QUESTION FIVE (25 MARKS)**