

TECHNI CAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences

DEPARTMENT OF **MEDICAL SCIENCES**

DIPLOMA IN MEDICAL LABORATORY SCIENCES (DMLS 11M)

AML 2260: RESEARCH METHODS

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: JULY 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this examination

- Answer booklet

Question one is compulsory, then answer TWO questions

Question ONE

- a) Discuss the ethical guidelines with regards to the following
 - (i) Researcher
 - (ii) Research involving human participants

(10marks)

b) Outline essential steps involved in searching for secondary data.

(8marks)

c) Explain the importance of research in the modern world

(6marks)

d) Discuss any THREE possible risks that may occur in the course of a research process (6marks)

Question TWO

a) Briefly explain the significance of sampling in research process.

(8marks)

- b) Explain how the following could be sources of error in a research process
 - (i) Researcher
 - (ii) Respondent
 - (iii) Instrument used
 - (iv) Situational factors

(12marks)

Question THREE

- a) Highlight the qualities of
 - (i) A good research topic
 - (ii) A good questionnaire

(14marks)

b) Explain any FOUR sources of primary data

(8marks)

Question FOUR

a) Discuss the qualities of a good research design.

(8marks)

- b) Explain the limitation for each of the following data collection methods
 - i) Ouestionnaire
 - ii) Interview
 - iii) Observation

(6marks)

- c) Define the following types of sampling techniques
 - (i) Systematic sampling
 - (ii) Stratified sampling
 - (iii) Proportionate sampling

(6marks)

Question FIVE

Discuss the risk management plan as applied in clinical research process.

(20marks)