



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences

DEPARTMENT OF MEDICAL SCIENCES

DIPLOMA IN MEDICAL LABORATORY SCIENCES
(DMLS)

AML 2260 : RESEARCH METHODS

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: OCTOBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this examination

- *Answer booklet*

This paper consists of **FIVE** questions.

Attempt question ONE (compulsory) and any other TWO from this paper.

This paper consists of **3 PRINTED** pages

Question ONE

- a) With respect to clinical studies, explain the following terms
- (i) Protocol
 - (ii) Subject
 - (iii) Population
 - (iv) Cluster
 - (v) Sampling
- (10marks)**
- b) Explain the benefits of medical research in today's medical world . **(10marks)**
- c) "Medical executives are faced by challenging situations that call for one to be equipped with knowledge research methods and skills". Justify the need for medical executives to be equipped with knowledge of research methods and skills. **(10marks)**

Question TWO

- a) Distinguish between ;
- (i) Theoretical and conceptual framework
 - (ii) Action and basic research
 - (iii) Cluster and Quota sampling
- (10marks)**
- b) Highlight and explain any FOUR qualities of good research objectives **(10marks)**

Question THREE

- a) Explain any FIVE advantages of the questionnaire as a method of data collection **(10marks)**
- b) Explain why it is necessary for interviewers to be trained before they conduct interviews.

(10marks)

Question FOUR

- a) Explain why sampling is paramount in any research process. **(10marks)**
- b) Describe any FIVE risks that researchers are likely to encounter in the course of research process. **(10marks)**

Question FIVE

- a) Explain any FIVE qualities of a research topic **(10marks)**

b) Explain the factors that shall influence a researcher to select a particular research design.

(10marks)