



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

**UNIVERSITY EXAMINATION FOR:**

MASTER OF SCIENCE IN MEDICAL PARASITOLOGY & VECTOR

BIOLOGY

AML 5112: RESEARCH METHODOLOGY

END OF SEMESTER EXAMINATION

**SERIES: APRIL 2016**

**TIME: 3 HOURS**

**DATE:** Pick Date May 2016

## Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt **ALL** questions.

**Do not write on the question paper.**

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## **Question ONE**

- a) Explain the principles that guide scientific research (10 marks)
- b) Explain the procedure for reviewing literature in the research process (10 marks)

## **Question TWO**

- a) Discuss the various types of reliability and validity in research (10 marks)
- b) Discuss the importance of writing a research proposal before engaging in any field research exercise (10 marks)

## **Question THREE**

- a) Discuss the risks and burdens of research on human subjects as (5 marks)  
Discuss the guidelines concerning consent of human research subjects as described in the Helsinki Declaration (9 marks)
- b) Discuss the major challenges encountered by Public Health researchers in Kenya (6 marks)
- c)

#### **Question FOUR**

Discuss the following components of a research proposal

- a) Introduction (7 marks)
- b) Literature Review (5 marks)
- c) Methodology (8 marks)

#### **Question FIVE**

Good research is meaningless unless the findings are communicated in a clear and interesting fashion.

- a) Discuss the various methods of communicating scientific information (10 marks)
- b) Discuss the components of a scientific peer reviewed article (10 marks)