



(Knowledge for Development)

**KIBABII UNIVERSITY
(KIBU)**

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR 1 SEMESTER 1**

**FOR THE DEGREE OF
MASTER OF SCIENCE (INFORMATION TECHNOLOGY)**

COURSE CODE : MIT 815

**COURSE TITLE : RESEARCH METHODS & SCIENTIFIC
WRITING IN INFORMATION TECHNOLOGY**

DATE: 21/10/2018

TIME: 2.00 PM – 5.00 PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.

QUESTION ONE

Literature review is a process of identification, location and analysis of documents containing information related to the proposed research problem being investigated. Explain the following in relation to literature review:

- (i) The importance of literature. [4 marks]
- (ii) The link between it and theoretical framework and testable hypothesis. [4 marks]
- (iii) Referencing styles. [12 marks]

QUESTION TWO

- a) The goal of probability sampling technique is to select a reasonable number of subjects, objects or cases that represent the target population. Using relevant examples explain any four probability sampling techniques. (12 mks)
- b) A study of 300 household in a small town of Bungoma revealed that 20 percent had at least one school- age child present.
 - i) What is the sample in the study? (2mk)
 - ii) What is the population? (2mk)
 - iii) What is the variable of interest? (2mk)
 - iv) What data measurement scale was used? (2mk)

QUESTION THREE

- a) What is the role of the following sections in a research topic objective? (12mks)
 - i) Target population
 - ii) Statement of the problem
 - iii) Literature review
 - iv) Conceptual framework
- b) What is qualitative and quantitative research? (8Mks)

QUESTION FOUR

- a) Non-probability sampling is used when the researcher is not interested in selecting a sample that is representative of the population. Explain any four types of biased sampling (12mks)
- b) What are the characteristics of a good statement problem? (8mks)

QUESTION FIVE

- a) As manager you are intrigued why some workers in your company/ institutions seem to derive joy from work and get energized by it, while others find it troublesome and frustrating. Indicate how you as a researcher will investigate this problem. In doing this, highlight the steps in your investigation. (13mks)
- b) Discuss the major ethical issues in research (7mks)