



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

**UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR**

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

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

COURSE CODE : MIT 815

COURSE TITLE : IT RESEARCH METHODS

DATE: 30/05/2021 TIME: 2.00 P.M – 5.00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

ALL QUESTIONS CARRY 20 MARKS EACH

QUESTION 1 [30 MARKS]

- a) i. Explain the major reasons to why computing research is necessary in our society?

[6 marks]

iii. Explain how a researcher is likely to commit the following ethical offences in computing research:

a) Fabrication of Data,

c) Data Falsification

[6 marks]

b) *Learning institutions are putting more effort in ensuring that all of its learners are in line with technology and more properly the know-how on the use of ICT devices and common applications. In the process, more often this objective has accompanied with a lot of challenges based on the fact that the majority of learners are non IT students. The senior technician said, "Some even come with already pre-set minds that IT courses are hard and convincing such learner to like the course becomes another effort to reckon with". In some occasions, learners have been complaining to their departments why computer courses are taught and yet they are taking programme not related to IT? Kibabii University, for instance, has also been a victim when it comes to teaching IT courses to Non IT students.*

Required:

- a) Formulate a research title based on the above scenario. [4 marks]
- b) Formulate TWO research questions based on the title stated above. [8 marks]
- c) Design a well labelled conceptual framework for the study [4 marks]
- d) What do you think will be the significant of the study [4 marks]

QUESTION TWO[20 MARKS]

- (a) Identify TWO research designs and explain how they can be applicable in computing research? [10 marks]

(b) You are required to elicit requirements for a library information system in a university. Explain which approach, you could apply to carry out the elicitation.

[10 marks]

QUESTION THREE [20 MARKS]

Discuss the validity and reliability of research instruments in information Technology research.

[20 marks]

QUESTION FOUR [20 MARKS]

Discuss the various probabilistic and non-probabilistic sampling techniques that a researcher may use to select a sample from the population giving an advantage and disadvantage for each.

[20 marks]

QUESTION FIVE [20 MARKS]

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:

- a) APA referencing style
- b) ACM referencing style
- c) IEEE referencing style