

10

(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

**UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR**

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

**FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY IN
(INFORMATION TECHNOLOGY)**

COURSE CODE : PIT 913

**COURSE TITLE : ADVANCED DATA
ANALYSIS**

DATE: 27/11/2021

TIME: 9.00 AM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO

ALL QUESTIONS CARRY 20 MARKS EACH

Question One (COMPULSORY)

20 Marks

Discuss some of the tools and transformations that can be applied when designing Information technology research titles.

Question Two

20 Marks

Any comprehensive research process will analyze literature review as an activity which discusses published information in a particular subject area in a summative or a synthesis form. After selection of sources of literature specific and relevant to the field under study, there is need to organize the literature so that it communicates to the target consumer.

Task. Assess the validity of the statement.

Question Three

20 Marks

Reliability and validity are concepts in Information Technology research is used to evaluate quality of research. Reliability is concerned with the consistency of measure while validity is concerned with the accuracy of a measure.

Task. Discuss

Question Four

20 Marks

Inferential and predictive data analysis deal with drawing conclusions and making prediction about properties of a population based on information obtained from a sample.

Task: Explain at least five inferential and five predictive data analysis tools used to analyze data in Information Technology research.

Question Five

20 Marks

The research process in Information Technology research consists of number of activities that overlap continuously rather than following a strict prescribed sequence.

Task. Discuss