(*Knowledge for Development*)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2019/2020 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER

MAIN EXAMINATIONS

FOR MASTER OF EDUCATION IN CURRICULUNM AND INSTRUCTION

COURSE CODE: CUT 815   COURSE TITLE: **RESEARCH METHODOLOGY**

DATE: 20/5/2021   **TIME**: 8:00 AM----11:00 AM

INSTRUCTIONS TO CANDIDATES

Answer Question One and Any TWO other (2) Questions
TIME: 3 Hours

Question one

i. Define the term research (4 marks)

ii. Discuss any four justifications for the need for research in education (16 marks)

Question two

i. Research is hinged in identification of a research problem. Identify any four sources of research problems you are likely to consider as a researcher

ii. Discuss the relevance of literature review in the development of a research study

Question three

a) Research instruments are key for any successful operationalization of a research plan. Identify and explain any four research tools a researcher may use in a research study.

b) Discuss the following concepts as related to research tools and state which is more important in your view

    i. Reliability

    ii. Validity

Question four

Differentiate between measures of central tendency and measures of relationship in the analysis of data. (8 marks)

Three different schools had the following as the performance of a sample of their students in an examination.

A	40	70	60	60	80	60	80	90	70	50
B	60	40	50	60	70	50	80	50	60	70
C	60	70	50	70	50	60	70	70	50	60

By determining the coefficient of variation for each schools explain the performance of the schools. (12 marks)

Question five

A simple survey was carried out in Kibabii University to determine the enrollment of a sample of students by gender in four different programmes. Use the information in the table below presents to answer the questions that follow.

Gender	Education	Science	Business	Computing
Males	12	14	13	12
Females	18	8	7	16

i. State the null hypothesis for the survey (4 marks)
ii. Test the null hypothesis using chi-square at 0.05 level of significance (14 marks)
iii. Differentiate between type I and type II errors in the testing of hypothesis (2 marks)