



*(Knowledge for Development)*

**KIBABII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**2020/2021 ACADEMIC YEAR**  
**FIRST YEAR SECOND SEMESTER**  
**MAIN EXAMINATIONS**

**FOR POSTGRADUATE DIPLOMA IN EDUCATION**

**COURSE CODE: CUT 722    COURSE TITLE: RESEARCH METHODS**

**DATE: 08/10/2021**

**TIME: 2:00 PM----4:00 PM**

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**INSTRUCTIONS TO CANDIDATES**

Answer Any THREE (3) Questions

TIME: 2 Hours

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### **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 (10 marks)
- ii. Discuss the relevance of literature review in the development of a research study (10 marks)

### **Question Three**

- a) Distinguish between a population and a sample (4 marks)
- b) Differentiate between probability sampling and non-probability sampling (6 marks)
- c) Argue for the use of probability sampling as opposed to non-probability sampling citing three examples of each type of sampling (10 marks)

### **Question Four**

- a) Distinguish between descriptive statistics and inferential statistics (4 marks)
- b) Distinguish between qualitative and quantitative data (6 marks)
- c) Describe the four scales of measurement stating an example of each (10 marks)

### **Question Five**

A teacher wanted to find out how students taught using two different methods performed in a certain subject in primary school.

- a) Come up with a possible topic for the teacher's study (4 marks)
- b) State what the independent and the dependent variables are in the teachers study. (4 marks)
- c) What kind of data did the teacher expect to get? (2 marks)
- d) Discuss the descriptive statistics the teacher used in the analysis of data (10 marks)