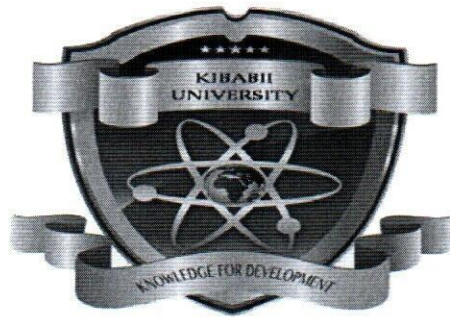




KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
MAIN EXAMINATIONS
POST GRADUATE DIPLOMA IN EDUCATION
2023/2024 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER

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

DATE: 5/12/2023

TIME: 9:00 AM – 11:00 AM

INSTRUCTIONS TO CANDIDATES

Answer FOUR Questions in this paper

TIME: 2 Hours

This Paper Consists of 2 Printed Pages. Please Turn Over



QUESTION ONE

- a) Briefly define research (5 marks)
- b) Distinguish between deductive and inductive reasoning citing examples (5 marks)
- c) Explain how experience can serve as a source of knowledge (5 marks)

QUESTION TWO

- a) Distinguish between quantitative and qualitative data citing an example of an attribute that yields each kind of data (4 marks)
- b) Discuss the **four** scales of measurement of data (8 marks)
- c) Justify why **median** should be used in the analysis of data captured on the Likert scale rather than **mean** (3 marks)

QUESTION THREE

A researcher endeavored to carry out a study on the *influence of preschool attendance on children's attainment in mathematics activities in grade one in primary schools in Bungoma County, Kenya*.

- a) Identify the independent variable and the dependent variable in this study (2 marks)
- b) Identify any **two** extraneous variables in this study (2 marks)
- c) Who do you consider to be the relevant respondents in this study? (2 marks)
- d) What method will you use to collect data from the identified respondent in (c) above? (2 marks)
- e) Discuss how the researcher will mitigate against the extraneous variables identified in this study (7 marks)

QUESTION FOUR

- a) Differentiate between reliability and validity of research instrument stating how each can be determined. (6 marks)
- b) Discuss any three methods of data collection and for each state the instrument that can be used by the researcher in data collection (9 marks)

QUESTION FIVE

- a) In a mixed school there were 350 female students and 400 male students. A teacher was investigating the influence of gender on choice of elective subjects. The teacher sampled 250 students for the study. If you were that teacher, briefly describe how you carried out the process of sampling. (10 marks)
- b) What would you consider to be the necessary and sufficient conditions for the results obtained to be used to make inference to the entire student population of the school? (5 marks)