CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICS

MATH 390: RESEARCH METHODOLOGY

STREAMS: TIME: 2 HOURS

DAY/DATE: WEDNESDAY 19/04/2023 8.30 A.M – 10.30 A.M

INSTRUCTIONS:

Answer question one and any other two questions

Adhere to the instructions on the answer booklet.

QUESTION ONE Compulsory.

- a. Define the term research and state its main purpose [2marks]
- b. Define the term abstract and state the main parts of an abstract in a report [5marks]
- c. Explain the main characteristics of well-written objectives [5marks]
- d. Explain the difference between a bibliography and a reference and state at least four referencing styles [5marks]
- e. Define the term survey and explain the two main methods of conducting survey [3marks]
- f. Differentiate between Quantitative and Qualitative Research hence explain the four main categories of measurement Scales [5marks]
- **g.** Highlight five Characteristics of Good Research Design: [5marks]

QUESTION TWO

- a. Differentiate between Pure research and Applied research giving examples [5marks]
- **b.** List at least five Forms of Hypothesis [5marks]

c.	State and briefly explain at least five tools of data collection	[5marks]
	Explain the difference between primary data and Secondary data and State the five primary data, distinguished by the way they are collected giving examples	basic types of [5marks]
QUESTION THREE		
a.	Explain five limitations of Qualitative Research	[5 marks]
b.	Highlight five Types of Research On the basis of method of research	[5marks]
c.	Highlight the General format of research report:	[10marks]
QUESTION FOUR		
	a. State the primary purposes of quantitative analysis	[5marks]
	b. Discuss the three main sources of secondary data	[6 marks]
,	c. State and explain the two types of sampling procedure:	[4marks]
	d. State the main reasons for rejecting a proposal	[5marks]
QUESTION FIVE.		
а	. State at least 3 assumptions of Sampling:	[3marks]
b	. Highlight the four main categories/ types of Experimental designs	[4marks]
C	. State five characteristics of a population giving examples	[5marks]
C	. Highlight the general steps in Experimental Research Methods	[8marks]