

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATION
RESIT/SPECIAL 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: THURSDAY 06/05/2021

11.30 A.M – 1.30 P.M

INSTRUCTIONS:

Answer all questions

QUESTION ONE (30 MARKS)

- a) Define the following terms
 - i) Research (2 marks)
 - ii) literature review (2 marks)
 - iii) hypothesis (2 marks)
 - iv) research design (2 marks)
- b) Distinguish between qualitative and quantitative research (4 marks)
- c) Discuss five characteristics of research (5 marks)
- d) State elements of literature review (4 marks)
- e) Discuss elements of a good research design (4 marks)
- f) State the steps for conducting a research (5 marks)

QUESTION TWO (20 MARKS)

Suppose you are tasked to carry out a research that aims at determining the effects of drug and substance abuse on academic performance among Chuka university students, and you are clearly guided to identify the commonly abused drugs, to establish the causes of drug abuse among University students, and also to establish the prevalence of drug abuse among students

and finally to establish the effects of drug abuse on participation in learning among students in Chuka University. Required; write a topic, smart objectives, brief statement of the problem and methodology from the information provided. (20 marks)

QUESTION THREE (20 MARKS)

- a) Why is it so important to carry out a research? (6 marks)
 - b) Discuss any four research designs giving relevant examples in each (8 marks)
 - c) What is the purpose of literature review in a research? (6 marks)
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