



# **MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS  
2023/2024 ACADEMIC YEAR**

**SEMESTER I EXAMINATIONS  
FOR THE DEGREE  
OF  
MASTER OF EDUCATION IN CURRICULUM AND  
INSTRUCTION**

**MAIN EXAM**

**COURSE CODE: CIT 805**

**COURSE TITLE: RESEARCH METHODS IN EDUCATION**

**DATE: 14/12/2023**

**TIME: 8.00-11.00 AM**

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**INSTRUCTIONS TO CANDIDATES**

TIME: THREE HOURS

***ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS***

**MMUST OBSERVES ZERO TOLERANCE TO EXAMINATION CHEATING**

**THIS PAPER CONSIST OF 2 PRINTED PAGES. →**

**PLEASE TURN OVER**

## QUESTION ONE

- a) Research is a Scientific method of acquiring knowledge and providing solutions to problems
- i. Provide both conceptual and practical definitions of research
  - ii. Comment on any other **FIVE(5)** methods by which man sought answers to his problems prior to research
  - iii. Explain the key elements of research that qualifies it as a scientific method
  - iv. Comment on the relationship between
    - a) Research and Philosophy
    - b) Research and Religion
  - v. Categorize research into any **THREE** types
- b) For precision, functional and practical purposes research can be classified on disciplinary basis:
- i. Explain the concept of Educational research
  - ii. Justify the role of research in education
  - iii. Precisely outline the functional value of educational research
  - iv. Summarize the process of Educational research
  - v. Undertaking educational research in Kenya is not "a bed of roses" comment on the prospects and challenges of educational research in Kenya
- c) Currently in the Kenya Basic Education system pertinent issues concentrates around the following aspects:
- CBC
  - Evaluation system
  - Access and equity

Select **ONE** of these **THREE** aspects of education think, reflect on it and then

- i) Identify a research problem, state it and explain why it is a problem

- ii) Formulate purpose and specific objectives of the study
- iii) Summarize logically, the process you will put in place to collect relevant data and provide answers to the research questions
- iv) Identify and comment on the ethical issues that the researcher is likely to encounter and the way to resolve them

## **QUESTION TWO**

Individuals and organizations world over have adopted the scientific approach of conceptualizing a project and proposing a plan to guide the implementation of the project

- a) Explain the meaning and justify the role of a research report
- b) Discuss the relationship between a research proposal and a research report
- c) Comment on the structure and discuss the basic principles that guide in writing a moderate educational research proposal

## **QUESTION THREE**

- a) Explain the concept and term Literature review in the context of educational research
- b) Justify the role of Literature and explain the process of reviewing and citing relevant literature in educational research
- c) Explain the basic principles guiding the review if literature and discuss the emerging problem in reviewing literature in educational research in Africa

## **QUESTION FOUR**

- a) Explain the difference between research concept or methodology and research methods in education
- b) With reference to the research proposal you have developed during your coursework, describe and comment on the following
  - i. The study design

- ii. Location of the study
- iii. Study population and sampling
- iv. Instruments and procedure for data collect with illustration the difference between quantitative

**QUESTION FIVE**

- a) Explain with illustration the difference between quantitative and qualitative data
- b) Describe the following measures in deceptive statistic
  - i) Measure of central tendency
  - ii) Measure of variability
- c) Given the following 50 scores in a mathematics test of grade 10 class

2	5	8	6	10	9	3	2	1	6
7	5	4	5	0	2	5	6	7	4
3	4	6	8	5	7	4	3	5	3
4	9	5	7	6	3	1	4	5	6
0	4	5	9	10	7	2	3	3	1

- i. Prepare a frequency distribution table
- ii. Calculate and interpret the mean, median and mode
- iii. Calculate and interpret the Range, Variance and Standard Deviation

**QUESTION SIX**

- a) Comment on the criteria for assessing the efficacy of a research problem
- b) Explain why and when a hypothesis is necessary in education research and highlight the criteria of a viable research hypothesis
- c) Differentiate between Theoretical and conceptual frameworks, stating the role of each in educational research