



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

MAIN EXAMINATION

UNIVERSITY EXAMINATIONS

2021 /2022 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

**DOCTOR OF PHILOSOPHY IN PHILOSOPHY OF
EDUCATION**

COURSE CODE: EDF 901

COURSE TITLE: ADVANCED RESEARCH METHODS I

DATE: Thursday 21st April 2022 TIME: 2:00 – 5:00PM

INSTRUCTIONS TO CANDIDATES

ANSWER ANY FOUR (4) QUESTIONS

TIME: 3 HOURS

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE

Qualitative and quantitative research paradigms have key areas of distinction. Distinguish the two paradigms. (20 marks)

QUESTION TWO

Explain how a researcher ensures reliability of instrument of data collection. (20 marks)

QUESTION THREE

Preliminary findings show that the 2020 Kenya Certificate of Secondary education (KCSE) faced several challenges mainly gender inequalities in Kenya. As an expert in education, you have been appointed by the Ministry of Education (MoE) to establish the main variables causing gender inequality in academic performance. Develop your proposal using the following headings: title of the study, statement of the problem, two (2) research objectives and research methodology. (20 marks)

QUESTION FOUR

Peter and Jane are experts in education. They design study whose purpose is to explore how online learning is experienced by university students, and also understand how these students perceive what lecturers do to facilitate the process of learning. Justify the appropriate qualitative research design for the study, stating three (3) most appropriate research questions for the study. Explain sampling design as well as three (3) main data collection techniques for the study. (20 marks)

QUESTION FIVE

Sustainable Development Goal No.4 seeks to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. Some of the targets in achieving this goal by 2030 include Universal primary and secondary education, Gender equality and inclusion, Universal youth literacy and Education for sustainable development and global citizenship. Explain how research can assist the government and the country in general to achieve the target by 2030. (20 marks)