



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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UNIVERSITY EXAMINATIONS 2023/2024

SECOND YEAR SECOND SEMESTER EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURAL EXTENSION AND EDUCATION, THIRD YEAR SECOND SEMESTER
EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN EDUCATION, BACHELOR OF
EDUCATION ARTS AND THIRD YEAR THIRD SEMESTER BACHELOR OF EDUCATION
SCIENCE

EMP 3350: RESEARCH METHODS

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) Distinguish between the following terms as used in this course
 - i. Independent variable and Dependent variable (3 marks)
 - ii. Cross-sectional and Longitudinal Research (3 marks)
- b) Elaborate on 3 non-scientific sources of knowledge marks (6marks)
- c) Illustrate using a relevant example in each case, the difference between null hypothesis and alternative directional hypothesis. (6 marks)
- d) Elucidate 3 factors to consider as you select a research tool (6marks)
- e) Justify with 3 well explained points the significance of research in Education (6 marks)

QUESTION TWO(20MARKS)

- a) You are supposed to come up with a research proposal before you complete your studies, expound on 5 possible sources of your research problem. (10 marks)
- b) Explain 5 reasons as to why questionnaires are a popular instrument of data collection. (10 marks)



QUESTION THREE (20MARKS)

- a) Examine 5 ethical issues that would guide you while collecting data for your research project (10 marks)
- b) Discuss any four probability sampling designs (10marks)

QUESTION FOUR (20MARKS)

- a) Demonstrate using 5 well elaborate points the relevance of literature review in the research process. (10 marks)
- b) Explain 5 subsections in Chapter 1 of a research proposal. (10 marks)

QUESTION FIVE (20MARKS)

- a) Describe the steps you would take to prepare and process data collected from structured questionnaires in preparation for data analysis. (10 marks)
- b) Examine the significance of the following in a research proposal
 - i. Conceptual framework (5 marks)
 - ii. Theoretical framework (5 marks)

