



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya

Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

Website: info@must.ac.ke Email: info@must.ac.ke

University Examinations 2024/2025

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS

EGE 3300: FIELDWORK AND RESEARCH METHODOLOGY IN GEOGRAPHY

DATE: JANUARY 2025

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Hypothesis is an assumption that is made based on some evidence and it is the initial point of any investigation that translates the research questions into predictions. Discuss (6 marks)
- b) A geography researcher intends to get a sample of 50 people in a population of 500. Describe how he will get this sample using systematic sampling technique (6 marks)
- c) A literature review can be just a simple summary of the sources, but it usually has an organizational pattern and combines both summary and synthesis. Giving example in each case discuss two sources of literature review. (6 marks)
- d) Explain these terms as used in research
 - i) Dependent and independent variables (2 marks)
 - ii) Sample and sample size (2 marks)
 - iii) Structured and unstructured interviews (2 marks)

- e) Central tendency measures are explained as a single value that attempts to describe a data set by identifying the central position. Discuss three most commonly used measures of central tendency (6 marks)

QUESTION TWO (20 MARKS)

- a) Both questionnaire and schedule are popularly used methods of collecting data in research. There is much resemblance in the nature of these two methods and many people remark that from a practical point of view, the two methods can be taken to be the same. However from the technical point of view there is a difference between the two. Explain five differences between questionnaire and schedule. (10 marks)
- b) Literature review is a mandatory process in any of academic writing. The focus of a literature is to summarize and synthesize the arguments and ideas of others without adding new contributions. Discuss five importance of literature review to a researcher (10 marks)

QUESTION THREE (20 MARKS)

- a) Hypothesis testing is a formal procedure for investigating the ideas about the world using statistics. It is most often used by scientists to test specific predictions. Describe three main steps in hypothesis testing (12 marks)
- b) Clarify the similarities and differences between stratified and quota sampling (8 marks)

QUESTION FOUR (20 MARKS)

- a) The following data represents the family income (in thousands of dollars) of 15 randomly selected families.

31	16	30	29	25
50	37	29	38	33
20	25	25	41	35

- i) Calculate the range (2 marks)
- ii) What is the width of each class (2 marks)
- iii) Construct a grouped frequency distribution table (6 marks)
- iv) Use the frequency distribution to draw a bar chart (4 marks)

- b) Explicate three significance of research design (6 marks)

QUESTION FIVE (20 MARKS)

- a) Explain five purposes of observation in a geographical research (10 marks)
- b) The following data represent bags of maize for 20 farmers. 80 76 90 85 80 70 60 62 70 85 65 60 63 74 75 76 70 70 80 85. Construct a frequency distribution, which is ungrouped (10 marks)