



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER

MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE EDUCATION SCINCE

COURSE CODE: SBL 311

COURSE TITLE: RESEARCH METHODS

DATE: 19TH DECEMBER 2022

TIME: 2.00 – 4.00 PM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Question One

- a) Define the following terms as used in research. (5 Marks)
- i) Research approach
 - ii) Research design
 - iii) Research strategy
 - iv) Research plan
 - v) Research problem
- b) What are the main characteristics of research objectives? (5 Marks)
- c) State the differences between quantitative and qualitative research methods by giving appropriate examples in each case. (5 Marks)
- d) Differentiate between Coding of data and Editing of data as applied to data processing and analysis in research. (5 Marks)
- e) Explain the following methods for identifying causal relationships using appropriate illustration. (5 Marks)
- i. Method of Agreement
 - ii. Method of Concomitant Variation
- f) In a certain county, sanitary conditions are very poor with only 5% of households having sanitary facilities such as pit latrines thereby leading to high incidences of related diseases such as gastroenteritis. The local authorities have initiated a sanitation project that aims at increasing the number of households with pit latrines by 20% each year. The project provides materials and the community should provide labour. Two years later, less than half of the target has been reached. Analyze this situation with respect to:
- i) the discrepancy.
 - ii) research question.
 - iii) the possible reasons for the situation.
 - iii) suitability to carry out a research on the situation.

Question Two

- a) Write short notes on the following data analysis approaches. (10 Marks)
- i. Qualitative Data Analysis
 - ii. Quantitative Data Analysis
 - iii. Manual Data Analysis
 - iv. Computerized Data Analysis
- b) What are the characteristics of good sample design? (10 Marks)

Question Three

- a) A literature review is important when preparing a proposal. Discuss. (10 Marks)
- b) Discuss the type of information that should be included in the statement of a problem. (10 Marks)

Question Four

What are the various types of research? Explain each in brief with suitable examples. (20 Marks)

Question Five

- a) Write brief notes to elucidate the following words as used in writing a research report. (10 Marks)
- i. Manuscript
 - ii. Memo
 - iii. Periodic Reports
 - iv. Proposal Report
 - v. Technical reports
- b) With examples, describe in details the main characteristics of a scientific research. (10 Marks)