



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATION SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

BACHELOR OF SCIENCE HONOURS DEGREE IN LIBRARY AND INFORMATION SCIENCE

RESEARCH METHODS AND STATISTICS II

ILI 2209

First Semester Examination Paper

February 2025

This examination paper consists of 2 pages.

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: Calculator

Examiners: Ms Mupambwa D. B.

INSTRUCTIONS

1. Answer any four (4) questions
2. Each question carries 25 marks
3. Importance is attached to accuracy, clarity of expression and legible handwriting

MARK ALLOCATION

| QUESTION | MARKS |
|-----------------|--------------|
| 1. | 25 |
| 2. | 25 |
| 3. | 25 |
| 4. | 25 |
| TOTAL | 100 |

1. Critically analyse any **five** probability sampling techniques in research. [25 marks]
2. With the aid of a table, describe the characteristics of the four main types of data in quantitative research, making sure to bring out the level or extent of analysis that can be done on each category. [25 marks].

3. The following are test scores of 12 LIS students from a recent examination.

50, 64, 76, 82, 38, 44, 72, 64, 92, 50, 64, 72

Calculate

- a. mean [2 marks]
 - b. median [2 marks]
 - c. mode [2 marks]
 - d. range [2 marks]
 - e. interquartile range [5 marks]
 - f. variance [8 marks]
 - g. standard deviation [4 marks]
4. Discuss the role of inferential statistics in research. [25 marks]
 5. Explain the steps involved in analysing qualitative data in research. [25 marks]
 6. Qualitative research has been criticized for being purely subjective. Demonstrate how qualitative researchers can enhance the trustworthiness of their research findings. [25 marks]