

**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**

**PART II SECOND SEMESTER JULY 2013 SUPPLEMENTARY EXAMINATIONS**

**ILI 2203: RESEARCH METHODS OF AND STATISTICS**

**TIME: 3HOURS**

**Instructions to candidates**

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

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1. Discuss the importance of historical research in librarianship. [25 marks]
  2. Discuss how you will evaluate historical sources when conducting historical research. [25 marks]
  3. With the aid of examples show the circumstances in which you would use the following non probability sampling techniques
    - 3.1 Quota sampling [5 marks]
    - 3.2 Snowball sampling [5 marks]
    - 3.3 Purposive sampling [5 marks]
    - 3.4 Self selected sampling [5 marks]
    - 3.5 Convenience sampling [5 marks]
  4. Descriptive statistics is the predominant type of data analysis employed by researchers in library and information science. Discuss the usefulness of descriptive statistics to LIS researchers. [25 marks]
  5. The following are marks for the 20 LIS students who set for an examination in 1919.  
**41, 42, 43, 88, 88, 84, 40, 50, 50, 50, 60, 79, 82, 80, 50, 60, 49, 49, 50, 72**  
Using the data above, discuss why it is important to calculate the mode, mean and median of the data set in research [25 marks]
  6. Justify ethical conduct in research. [25 marks]

**END OF PAPER**