

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 MAY 2013 EXAMINATIONS

ILI 2203: RESEARCH METHODS AND STATISTICS

TIME: 3HOURS

Instructions to candidates

1. Answer any four (4) questions.
 2. Question **five (5)** is **compulsory**
 3. Each question carries 25 marks.
 4. Give equal time to each question.
 5. Importance is attached to accuracy, clarity and legible handwriting.
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1. Basic and applied research tend to be conducted in isolation but are not necessarily dichotomous. Discuss. [25 marks]
2. Examine the importance of each of the research steps within the Scientific Method of Inquiry. [25marks]
3. Coming up with a proper strategy of enquiry suitable for research involves numerous decisions and considerations. Under what circumstances are the following strategies of inquiry suitable in a research?
 - 3.1 Case study [8 marks]
 - 3.2 Survey [9 marks]
 - 3.3 Experiment [8 marks]
4. To some extent, research findings are affected by the nature of the data collection techniques used. Discuss this statement with references to the types of data collection techniques. [25 marks]
5. A random sample of 20 LIS students were asked to rate their lecturer who teaches them research methods and statistics using ranking order: Poor, Acceptable, Good, Very Good, Excellent. See **Appendix 1** for data from respondents.
Required:

5.1 Organised and summarise the data. [8 marks]

5.2 Discover the important features and patterns in the data. [9 marks]

5.3 Interpret findings in the context of the issues at hand (problem). [8 marks]

6. The following are marks for 20 LIS students who set for an examination in 2000.

41, 42, 43, 88, 88, 84, 40, 50, 50, 50, 60, 79, 82, 80, 50, 60, 49, 49, 50, 72

Required:

6.1 Construct an appropriate graph from the data. [10 marks]

6.2 Interpret the graph's pattern in terms of a) shape; b) centre; and c) spread. [15 marks]

END OF PAPER

Appendix 1: Data from respondents

Student	Lecturer Ratings
1.	Excellent
2.	Good
3.	Excellent
4.	Poor
5.	Poor
6.	Very good
7.	Good
8.	Poor
9.	Good
10.	Good
11.	Good
12.	Good
13.	Acceptable
14.	Good
15.	Poor
16.	Excellent
17.	Poor
18.	Very good
19.	Acceptable
20.	Excellent