	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 11				
ILI 2209				
Second Semester Examination Paper				
April 2017				
This examination paper consists of 4 pages				
Time Allowed	l: 3 hours			
Total Marks:	100			
Special Requi	rements: None			

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INSTRUCTIONS

- 1. Answer any <u>four</u> (4) questions.
- 2. Give equal time to each question.
- 3. Each question carries 25 marks.
- 4. Importance is attached to clear presentation of ideas, good expression and legibility of handwriting.

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25

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- 1. In research, the characteristic or phenomenon that can be measured or classified is called a variable. Using examples, discuss the four levels that can be used to measure variables [25 Marks]
- A random sample of 30 NUST students was asked the following question as part of a larger survey that was carried out to assess the quality of the services offered by the Library. What is your perception of services offered by the Library? Appendix 1: Data from Respondent shows the responses: excellent, very good, good, acceptable and poor

Required: a) Organise and summarise the data	[8 Marks]	
b) Discover the important features and patterns in the data	[9 Marks]	
c) Interpret the findings in the context of the aim of the study.	[8 Marks]	
3. The following are test scores for 34 LIS students who set for an examination in 2006.		

50, 41, 61, 51, 55, 76, 82, 43, 44, 71, 60, 81, 50, 70, 66, 92, 65, 44, 64, 45, 58, 64, 55, 55, 66, 56, 45, 78, 48, 61, 47, 73, 45, 46.

Required:

a) Construct an appropriate graph from the data	[10 Marks]	
b) Interpret the graph's pattern in terms of :-		
i. Shape		
ii. Centre		
iii. Spread	[15 Marks]	
4. Using examples, demonstrate the circumstances where you would use a) mean	n b) mode	
c) median as measures of centres?	[25 Marks]	
5.1 Discuss the two approaches used in analysing qualitative data. [8 Marks]		
5.2 After briefly explaining what coding is, discuss the process of data coding.	[10 Marks]	
5.3 Conduct manual coding on the passage attached as Appendix 2: Coding.	[7 Marks]	
6. Examine the following types of qualitative data analysis,		
6.1 Content analysis	[5 Marks]	
6.2 Narrative analysis	[5 Marks]	
6.3 Discourse analysis	[5 Marks]	
6.4 Framework analysis	[5 Marks]	
6.5 Grounded theory	[5 Marks]	

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Appendix 1: Data from Respondents

Student	Service 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.	Poor
21.	Very good
22.	Good
23.	Poor
24.	Good
25.	Good
26.	Good
27.	Good
28.	Acceptable
29.	Excellent
30.	Excellent

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Appendix 2: Coding

My son, Barry, went through a really tough time about, probably started the end of fifth grade and went into sixth grade. When he was growing up young in school he was a people-pleaser and his teachers loved him to death. Two boys in particular that he chose to try to emulate, wouldn't, were not very good for him. They were very critical of him, they put him down all the time, and he kind of just took that and really kind of internalized it, I think, for a long time. 5 In that time period, in the fifth grade, early sixth grade, they really just kind of shunned him all together, and so his network as he knew it was gone.

Source: The Coding Manual for Qualitative Researchers Johnny Saldaña

Caveat: After coding attach this copy on your answer book.

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