



NATIONAL OPEN UNIVERSITY OF NIGERIA

Faculty of Education

Department of Library and Information Science

2024_2 EXAMINATION

Course Title: Research Methods and Statistics in Library & Information Science
Course Code: LIS305 (3CU)
Time Allowed: 3 Hours
Instruction: Please carefully read and take note of the instruction below:
Answer four questions in all, question one and any other two questions.

Question 1

- a. "Research is a significant path to vigorous discovery". Critically analyze and discuss this statement. **(4marks)**
- b. Explain the critical role of research in Library and Information Science **(4marks)**
- c. Identify and explain four scales commonly applied in research studies **(10marks)**
- d. Briefly write short notes on any four of the following
 - i. Dependent variable **(3marks)**
 - ii. Independent variable **(3marks)**
 - iii. Discrete variable **(3marks)**
 - iv. Continuous variable **(3marks)**. **Total 30marks.**

Question 2

- a. What is the research methodology? **(4marks)**
- b. Identify and explain four (4) pitfalls to avoid in the research proposal **(6marks)**
- c. What is Literature Review and what does a Literature review reveal? **(5marks)**
- d. Highlight four (4) common shortcomings of literature review that students suffer from. **(5marks)**. **Total 20marks.**

Question 3

- a. What is research design **(4marks)**
- b. Identify and explain two (2) types of research design you know **(6marks)**

- c. What are the characteristics of a good research design **(6marks)**
- d. Briefly explain the four classes of research design. **(4marks). Total 20marks.**

Question 4

- a. What is descriptive statistic, give examples **(5marks)**
- b. What is inferential statistic, give examples **(5marks)**
- c. Clearly explain the difference between descriptive and inferential statistics **(10marks). Total 20marks.**

Question 5

- a. Clearly list and explain the five (5) steps involved in qualitative data analysis **(12.5marks)**
- b. Give four (4) advantages and disadvantages of quantitative research **(7.5marks). Total 20marks.**

Question 6

Compare the scientific method of acquiring knowledge with the following methods:

- i. Traditional **(4 Marks)**
- ii. Authority **(4 Marks)**
- iii. Experience **(4 Marks)**
- iv. Trial and error **(4 Marks)**
- v. Intuition **(4 Marks). Total 20marks.**