

NATIONAL OPEN UNIVERSITY OF NIGERIA

Faculty of Education

Department of Library and Information Science

2024_1 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 three questions in all, question one and any other two

questions.

Question 1

a. A variable is any characteristic that assumes measurable values. Explain.
 (3marks)

- b. Differentiate between: -
 - Dependent and independent variables (6marks)
 - Discrete and continuous variables (6marks)
- c. What is Case Study research? Explain four (4) characteristics of case study research. (12marks)
- d. List three (3) categories of a case study (3marks). Total 30marks.

Question 2

- a. Explain the relationship between research question and research objective (8marks)
- b. Briefly explain any three (3) of the following:
 - Statement of problem (3marks)
 - Justification of the research (3marks)
 - Significance of the research (3marks)
 - Scope of the research (3marks)
 - v. Background of the study (3marks). (12marks). Total 20marks.

Question 3

a. Explain the significance of validity in research (2marks)

- b. Identify and explain three (3) categories of validity (9marks)
- c. Identify and explain three (3) threats to validity (9marks). Total 20marks.

Question 4

Clearly explain the following:

- (a) Probability and Non-Probability sampling (4marks)
- (b) Snowball sampling (4marks)
- (c) Convenience sampling (4marks)
- (d) Judgement sampling (4marks)
- (e) Quota sampling (4marks). Total 20marks.

Question 5

- a. What do you understand by 'Ethical Issue in Research'? (10marks)
- b. List four (4) examples of ethical issues in research procedure (4marks)
- c. Mention four (4) circumstances that is compulsory for you to reference in-text and in the list of reference (6marks). Total 20marks.

Question 6

- a. Define research problem. (10marks)
- With the aid of a diagram illustrate the sources of research problem. (10marks).
 Total 20marks.