



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral zone, Nnamdi Azikiwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

2023_1 POP EXAMINATION

COURSE CODE	EDU 723
COURSE TITLE	RESEARCH METHODS IN EDUCATION
CREDIT UNIT	2
TIME ALLOWED	2HOURS
INSTRUCTION	ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION 1

- a) How do you describe the following?
- i) Correlation . ii). Correlation coefficient, iii). Scatter- gram(6 marks)
 - b) Correlation values range from -1 to +1. Explain in details the meaning of this range. (6 marks)
 - c) A researcher subjected Two sets of scores from the same set of students in his class, to Pearson Product Moment Correlation Coefficient in order to see if any significant relationship exists between the set of scores. He subjected the resultant answer to t- test to verify his hypotheses.
 - i. Propose one null and one alternative hypotheses for this study.

If the results are as follows;- $N = 45$, $r = 0.65$, $t_{cal} = 4.516$, $t_{tab.} = 2.250$

- ii. What are the decision rules to be applied here?
 - iii. What is the degree of freedom to be applied here?
 - iv. What decision do you think the research would be taken in this study. (12 marks)
- d) In choosing the type of correlation coefficient, there are Three factors to be considered. What are these factors? (6 marks)

QUESTION 2

- a) How can you describe the concept of Educational Research? (4 marks)
- b) Explain the characteristics of Educational Research. (10 marks)

- c) Qualitative and Quantitative are research approaches in Educational Research. Situate these research types in their correct approach.
- i. Historical, ii. Survey, iii. Experimental, iv. Ethnographic, v. Correlational, vi. Phenomenological. (6 marks)

QUESTION 3

- a. What do you understand by correlation studies? (4 marks)
- b. Explain the types of correlation. (10 marks)
- c. What are the Two main limitations of correlation studies.(4marks)
- d. Give an example of a research topic involving correlation. (2 marks)

QUESTION 4

- a) Differentiate between instrument and instrumentation in research.(4mks)
- b) How do you describe a questionnaire? (4 marks)
- c) Explain the Two types of questionnaire. (4 marks)
- d) Construct Two items each as examples of the two types (8 marks)