



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral zone, Nnamdi Azikiwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

2021_1 POP EXAMINATION

PROGRAMME: PGDE
COURSE CODE EDU723
COURSE TITLE BASIC RESEARCH METHODS IN EDUCATION
CREDIT UNIT 2
TIME ALLOWED 2HOURS
INSTRUCTION ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION 1

- a. How would you explain the following?
 - i. 0.05 alpha level or level of significance.
 - ii. 0.01 alpha level or level of significance.
 - iii. Degree of freedom
 - iv. Type 1 error
 - v. Type 2 error
 - vi. Two- tailed test
 - vii. One- tailed test (14 marks)
- b. A researcher went to Abuja Model Study Centre of National Open University of Nigeria to determine the enrolment pattern of students to some academic programmes according to religion. He analysed his data using a 4x4 contingency table and came out with the following results.

χ^2 calculated = 13.58, χ^2 on the table = 16.92, P = 0.05, N = 520

- i. Formulate a null hypothesis for this study
- ii. Formulate an alternative hypothesis for this study.
- iii. Find the degree of freedom (df)

- iv. Recommend the decision rule for this study.
- v. What is the decision for this study based on the hypotheses.
- vi. What does χ^2 stand for? (16 marks)

QUESTION 2

- a. How do you differentiate between Research and Educational Research?
- b. You have just finished the study of Basic Research Methods in Education. A would-be researcher has come to you, for you to educate him on how to carry on his study. Explain to him the steps he will take to start and finish the research study. (20 marks).

QUESTION 3

In the process of undertaking your research project, your supervisor has recommended that you use Observation as a method of data collection.

- a. Explain the problems you are likely to face if you use this observation method.
- b. Recommend the guides which will help you have good observations. (20marks)

QUESTION 4

- a. How would you describe a research project report in education?
- b. Explain the components of the preliminary pages of your research project report. (20 marks)