NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja
Faculty of Education
2020_1 Semester

PROGRAMME: **PGDE**
COURSE TITLE: **Basic Research Methods in Education**
COURSE CODE: **EDU723**
CREDIT UNIT(s): **2**
TIME ALLOWED: **2 HOURS**
INSTRUCTION: **Answer question one and any other two**
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Question 1
(a). What benefits do you derive when you study statistics?   (12 marks).

(b). As a class teacher, your class students took test in both statistics and mathematics. The results are as follows:- mean performance in (i) statistics=52, and (ii) mathematics=48. The students are 20 in number. Standard deviation=16.05, tcal=0.515, ttab=2.121, p=0.05

  i.   Formulate one null hypothesis H0 and one alternative hypothesis Ha on the students' performances in both statistics and mathematics. (6marks)

  ii.   What is the degree of freedom in this situation? (3marks)

  iii.   State the decision rules to guide you here. (5marks)

  iv.   What decision can you make based on your null hypothesis? (2marks)

  v.   What is your decision based on your alternative hypothesis? (2 marks).

Question 2

(a). What do you understand by a research project report?   (2 ½ marks)

(b). You are about to write your research proposal. The chapter 1 of this proposal is called introduction. Explain what you will write on the components of the introduction. (17½ marks).

Question 3

(a). The wish of the educational researcher is to apply scientific methods in research. Explain the limitations to this wish.   (14 marks).

(b). Explain the characteristics you will consider when you want to select your research problem.

(6 marks).

Question 4

(a) What do you understand by historical research? (4 marks).

(b) What are the two sources of historical data? (4 marks).

(c) Give three examples of each of the sources of historical data. (6 marks).

(d) Explain the two ways of determining the authenticity of historical data. (6 marks)