

NATION OPEN UNIVERSITY OF NIGERIA

SCHOOL OF EDUCATION 2024_1 EXAMINATION

Course Code: EDU 823

Course Title: Basic Research Methods in Education

Credit Unit: 2

Time Allowed: 2 Hours

1	. a.	A researcher is interested in the level of teaching effectiveness of teachers in a state in	I division
		Nigeria, and how the level of teaching effectiveness varies with personal characteristics	
		of the teachers. There are 1000, 000 and 200 tracts with personal characteristics	
		of the teachers. There are 1000, 900 and 800 teachers in the Southern Central and	
		Northern Education Zones respectively in the state. He plans to collect data from 55%	
		of all the teachers in the state schools. Based on this information, answer the following questions:	
		i) Formulate a research topic for the study	2 marks
		ii) Deduce the main and four specific purposes of the study	5 marks
		iii) Formulate four null hypotheses for the study	4 marks
		iv) For any two of your null hypotheses, identify independent and dependent variables	4 marks
		 State the appropriate statistical analysis techniques that could be used in testing the hypotheses. Justify your choice 	2 marks
		vi) Determine in figures, the population and sample size involved in this study	2 marks
		vii) Show mathematically what the researcher could do to achieve proportional	3 marks
		representativeness from each zone	
2	-	viii) What type of research design is appropriate for the study? Justify your answer	3 marks
2	a.	riighlight six steps involved in the educational research process	3 marks
	b.	What is an educational problem? Describe any two ways a problem in education can be	
		refined giving a specific example for each form.	4 marks
2	c.	State and briefly explain any four qualities of a good research problem in education	8 marks
3.	a.	what is research design as it applies to educational research?	3 marks
	b.	Highlight four importance of a research design in educational research?	4 marks
	c.	Distinguish exhaustively between research design where the independent variable can	4 marks
	٠.	be manipulated and that where it cannot be manipulated.	
	d.	A researcher wanted to find out if students who attend remedial classes in Use of	4 marks
		English will perform significantly better than their counterparts who do not Which	
		design should be used. Describe the plan for data collection with respect to the design	
	a.	Differentiate between the following pair of research concepts	7
		Background to the study and statement of the problem	3 marks
		b. Purpose of the study and significance of the study	3 marks
		c. Delimitation of the study and limitation of the study	3 marks
		d. Abstract and summary of the study	3 marks
		e. Implications and recommendations	3 marks
	a.	With specific examples for each, state difference between structured and unstructured	6 marks
		questionnaire. State one condition under which you would prefer to use each format	o marks
	b.	Identify and explain four characteristics of a good questionnaire	E 1
	c.	State two advantages and two disadvantages of using observation technique in data	5 marks
		collection.	4 marks