



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**University Village, Nnamdi Azikiwe Express Way, Jabi, Abuja**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF PUBLIC HEALTH SCIENCE**  
**2023\_2 EXAMINATIONS**

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**COURSE TITLE: Research Methods in Public Health (PHS805)**

**CREDIT UNIT: 3 Units**

**TOTAL SCORE: 70 Marks**

**TIME ALLOWED: 2 Hours**

**INSTRUCTION: Answer All Questions**

**QUESTION 1            15 Marks**

- 1a. Explain the various measurement scales in public health research. **(5 marks)**  
1b. Differentiate between interval and ordinal scales with relevant examples. **(10 marks)**

**QUESTION 2            20 Marks**

- 2a. Highlight the various types of sampling techniques in public health. **(5 marks)**  
2b. You are to carry out a study among young children in a local community. Describe the two sampling techniques you will use to select the households and the children. **(10 marks)**  
2c. If the sampling frame is 4000 and the sample size is 1000, calculate the sampling proportion and interpret it. **(5 marks)**

**QUESTION 3            15 Marks**

- 3a. Bias is an error introduced into experimental design. Highlight the various types of bias in an experimental design. **(8 marks)**  
3b. List the different types of qualitative research methods and state the advantages of Qualitative research. **(7 marks)**

**QUESTION 4            20 Marks**

- 4a. You are to carry out a study with a questionnaire. Explain the two (2) tests you will carry out on the questions before administering them to make sure they will answer the research questions and the study objectives. **(10 marks)**  
4b. Describe with relevant example Cross sectional study. **(10 marks)**