



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**UNIVERSITY VILLAGE, NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF PUBLIC HEALTH**  
**2024 1 EXAMINATION**

**PROGRAMME: BACHELOR OF SCIENCE IN PUBLIC HEALTH**  
**COURSE CODE: PHS421**  
**COURSE TITLE – RESEARCH METHODS IN PUBLIC HEALTH**  
**CREDIT UNITS: 3**  
**TIME ALLOWED: 2 ½ HOURS**

**ATTEMPT ALL QUESTIONS**

1. Distinguish between a cohort study and a control study. Give examples where applicable. (8 marks)
  - b. Highlight the general objectives of research. (4 marks)
  - c. a. List any five (5) procedures through which samples can be drawn from a population. (5 marks)
- 2a. Enumerate the five (5) techniques involved in defining a research problem (5 marks)
  - b. Why is it important to define a research problem (5 marks)
  - c. Explain the following research designs:
    - i. observational design
    - ii. sampling design
    - iii. operational design
    - iv. statistical design (8 marks)
3. Give five (5) distinguishing features between a survey and an experiment (10 marks)
  - b. Highlight seven (7) sources of collecting demographic data (8 marks)
- 4a. What is coding? (5 marks)
- 4b. Mention and describe four ways by which the quality of data can be improved. (10 marks)
- 4c. Mention 5 categories of quantitative data. (2 marks)

**(TOTAL = 70 MARKS)**