



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91, CADASTRAL ZONE
NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PUBLIC HEALTH SCIENCE
2023_2 EXAMINATIONS

COURSE TITLE: Principles of Epidemiology I (PHS803)

COURSE UNITS: 2 Units

TIME ALLOWED: 1½ hours.

TOTAL MARKS: 70%

INSTRUCTION: Answer all the Questions

QUESTION 1 25 marks

- 1a. Define the term Epidemiology and the basic principles of epidemiology (5 marks)
- b. List 10 uses of epidemiology and briefly explain the primary Applications of Epidemiology in Public Health (5 marks)
- ci. Using two examples , describe the use of descriptive epidemiology (10marks)
- ii. What are experimental studies? Differentiate between the two types of experimental studies (5 marks)

QUESTION 2 25 marks

2a. Explain the following terms using examples.

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| i. Confounders | 5marks |
| ii. Mention four sources of bias in case-control studies | 5marks |
| iii. Odd's Ratio | 5marks |
| b. Mention the five advantages of case-control studies | 5marks |
| c. Why do we do matching in case control studies | 5marks |

QUESTION 3 20 marks

- 3a. What is demography? **3marks**
- 3b What is the difference between fertility and fecundity **2marks**
- 3c Explain the following terms using examples:
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|-----------------------------|---------------|
| (i) Create Birth Rate (CBR) | 5marks |
| (ii) Incidence Rate (IR) | 5marks |
| (iii) Prevalence Rate (PR) | 5marks |