



**NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, NNAMDI AZIKIWE EXPRESS WAY, JABI-ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PUBLIC HEALTH SCIENCE
2023_1 POP EXAMINATION**

COURSE TITLE: PRINCIPLES OF EPIDEMIOLOGY

COURSE CODE: PHS803

CREDIT UNIT: 2 Units

TOTAL SCORE: 70 Marks

TIME ALLOWED: 1¹/₂ Hours

INSTRUCTION: Answer All Question

Q1 a. Discuss the concept of Epidemiology highlighting its fundamentals assumptions. **(10 marks)**

b. Explain the Disease Triangle using suitable example **(7 Marks)**

c. highlights the importance of studying epidemiology **(8Marks)**

Q2. a. Discuss the concept of case and disease measure in Epidemiology **(5marks)**

b. Enumerate the advantages of sample survey **(6marks)**

c. Explain the Following using Covid-19 as an example.

i. Suspected case **(3marks)**

ii. Probable case **(3marks)**

iii. Confirmed case **(3marks)**

Q3. Define Risk Ratio with example **(2 Marks)**

b. In an outbreak of Corona virus infection in two Dormitories at Government College Saminaka, out of 150 Students in Panwasa House 30 Developed Covid-19 while out of 190 students of Makama House, 15 developed Covid-19.

i. draw out a a two by two table for the general notation of the data **(2Marks)**

ii. calculate the risk of attack rate in Panwasa House**(2Marks)**

iii. calculate the risk of attack rate in Makama House**(2Marks)**

iv. calculate the risk ratio in Panwasa House**(2Marks)**

v. calculate the risk ratio in Makama House**(2Marks)**

vi. Explain the implication of your findings **(4Marks)**

c. Highlight the disadvantages of Experimental research **(9Marks)**