



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**UNIVERSITY VILLAGE, NNAMDI AZIKIWE EXPRESS WAY, JABI-ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF PUBLIC HEALTH SCIENCE**  
**2022\_2 EXAMINATION**

**COURSE TITLE: PRINCIPLES OF EPIDEMIOLOGY 1**

**COURSE CODE: PHS803**

**CREDIT UNIT: 2 Units**

**TOTAL SCORE: 70 Marks**

**TIME ALLOWED: 1<sup>1</sup>/<sub>2</sub> Hours**

**INSTRUCTION: Answer All Question**

- Q1 a.** Using HIV/AIDS as an example, explain the Causal Pie model of disease transmission **(10 marks)**  
**b.** What are the Fundamental Assumptions of Epidemiology? **(4marks)**  
**c.** Discuss the Importance of Epidemiology in Disease control **(6Marks)**

- Q2. a** What is Disease surveillance **2 Marks**  
**b.** In March 2020 the first case of Covid-19 Pandemic was reported in Nigeria, as a Public Health Officer, describe the basic surveillance steps that need to be undertaken to curtail the outbreak. **(16 Marks)**  
**c.** What are the disadvantages of case control studies **(7marks)**

- Q3 a.** Define Risk Ratio and explain the following **(2Marks)**

- i.** a risk ratio greater than 1**(2Marks)**
- ii.** risk ratio equal to 1**(2Marks)**
- iii.** risk ratio less than 1**(2Marks)**

- b.** In an outbreak of Corona virus infection in two Dormitories at Government College Saminaka, out of 140 Students in Panwasa House 30 Developed Covid-17 while out of 220 students of Makama House, only 8 developed Covid-19.
- i.** draw out 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 finding **(2Marks)**
- c.** Highlight the advantages of Experimental research **(5Marks)**

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