



**DEPARTMENT OF HUMAN KINETICS AND HEALTH EDUCATION,  
FACULTY OF EDUCATION,  
NATIONAL OPEN UNIVERSITY OF NIGERIA, ABUJA  
2023\_2 EXAMINATIONS**

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**HED417: Epidemiology and Public Health**

**UNITS: 2c**

**INSTRUCTION:** Answer **THREE (3)** questions, number **ONE (1)** & any other **two (2)** questions.

1. (a) Briefly explain the three(3) components of epidemiological triad  
(b) Differentiate between systematic sampling and quota sampling methods for selecting subjects in epidemiological studies  
(c) Describe any five functional components of waste management system
2. (a) Cross-sectional study is a type of epidemiological studies is a type of epidemiological studies that is used to investigate diseases, health events, actions, and programmes. Expatiate  
(b) With clear examples, explain the components of occupation safety.
3. (a) In conducting epidemiological studies, one should abide by ethical principles in order to protect the human beings, animal or the environment involved in his/her research from dangers/risk due to participation in the study. With clear examples explain any five ethical considerations that an epidemiologist should be abided by.  
(b) Explain the vital roles family health education is playing in promoting the health of Nigerian citizens.
4. (a) There are many screening test parameters that are used essentially to measure the usefulness of epidemiological test. Identify and explain any three of these parameters.  
(b) Discuss the appropriate safety guidelines that can go along way toward preventing workplace injuries.
5. Discuss the any five modes of transmission and prevention/control of the following diseases:
  - a. Typhoid fever
  - (b) Escherichia coli