



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, University Village,
Nnamdi Azikiwe Expressway, Jabi, Abuja
Faculty of Education
Department of Human Kinetics & Health Education
2025_2 EXAMINATIONS

Course Code: HED417

Course Title: Epidemiology and Public Health

Time: 2hours

Instruction: Answer question one (1) and any other two.

1. (a) Select any waterborne disease and provide explanatory notes on the following aspects related to the disease:

(i) Overview of the disease

(ii) Mode of transmission

(iii) Causes

(iv) Prevention and control

(20 Marks)

(b) Discuss the three (3) levels of health care systems in Nigeria:

(10 Marks)

2. (a) Explain the concept of epidemiology as the study of the distribution of diseases, using clear examples. (10 Marks)

(b) Epidemiology covers a wide range of topics. In light of this, explain the following types of epidemiology:

(i) Population epidemiology

(ii) Aging epidemiology

(iii) Forensic epidemiology

(10 Marks)

3. (a) Describe ten (10) key objectives of epidemiology that are relevant to health educators and public health professionals. (10 Marks)

(b) Explain the interaction and interdependence of the following components of the epidemiological triad in disease investigation and epidemic control:

(i) Environment

(ii) Time

(10 Marks)

4. (a) Discuss how the principles of consistency, specificity, and temporality can be used as criteria for assessing the strength or weakness of disease causation. (10 Marks)

(b) Neonatal mortality rate and post-neonatal mortality rate differ. Using clear examples, explain the distinctions between them. (10 Marks)

5. (a) Identify five (5) common health problems faced by adults and suggest ways to promote adult health. (10 Marks)

(b) Trace the historical development of public health during the 18th and 19th centuries.

(10 Marks)