



BOWEN UNIVERSITY IWO
COLLEGE OF HEALTH SCIENCES
PUBLIC HEALTH PROGRAMME

PUH 419: EPIDEMIOLOGY, DISEASE CONTROL AND SURVEILLANCE

DATE: THURSDAY, 1ST FEBRUARY, 2024.

2 hours 30 minutes

INSTRUCTIONS: Answer four (4) questions in all. Three (3) questions from Section A and one (1) question from section B.

SECTION A

- 1(a) List the 2 types of analytical studies (4marks)
(b) Highlight the steps in conducting a case-control study (8marks)
(c) List 4 advantages of case-control study (8marks)
- 2(a) Define the terms epidemic, endemic and pandemic (6marks)
(b) Outline the steps in investigating an epidemic (12marks)
(c) What is incubation period of a disease? (2marks)
- 3(a) Define non-communicable diseases (NCDs) (2marks).
(b) Give 3 examples of non-communicable diseases (NCDs) (6marks)
(c) List 3 risk factors for NCDs? (6marks)
(d) With the aid of **F-diagram only** describe the feco-oral transmission of diseases. (6marks)
- 4(a) List 5 components of National Health Management Information System (NHMIS) in Nigeria. (10marks)
(b) List 5 challenges of NHMIS. (10marks)

SECTION B

- 5(a) What do you understand by the following terminologies:

- i. Cohort study (3marks).
- ii. Cross - Sectional study (3marks).
- iii. Ecological study (3marks).
- iv. Case control study (3marks).
- v. Interventional study (3marks).

5(b) Write a short note on human ecology and disease processes (5marks)

6(a) What is disease surveillance? (5 marks)

6(b) Explain 5 essential surveillance approaches that can be adopted for covid - 19

(15 marks)