



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES (CHANS)

DEPARTMENT OF PUBLIC HEALTH AND NURSING

NSPH 536 ENVIRONMENTAL HEALTH

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL/MAY 2025

LECTURER: DR G. KAMBONDO

DURATION: 3 HRS

INSTRUCTIONS

ANSWER ALL QUESTIONS IN SECTION A AND ANY
THREE QUESTIONS IN SECTION B

Marks allocated for each question is shown at the end of each
question

Credit will be awarded for logical, systematic and neat presentation.

SECTION A (Answer All Questions)

QUESTION 1

- a) Global environmental change can affect human health, food supply and spread of diseases in various ways. Describe your understanding of these problems. [20]

QUESTION 2

- a) What do you understand by air pollution? Discuss. [10]
- b) Explain the effects of air pollution on human health and welfare. [10]

SECTION B (Answer Any Three (3) Questions)

Question 3

With an aid of a diagram, describe the hydrological cycle under the following headings:

- a) Evaporation
- b) Condensation
- c) Precipitation
- d) Infiltration and Percolation [20]

Question 4

There are three main sources of water, for Public supply.

- a) Describe how water is obtained from each source [10]
- b) Comment on the advantages and disadvantages of each water source in terms of capital costs, reliability of supply and environmental impact [10]

Question 5

In the study of foodborne infections, like in all studies of diseases, the knowledge of the epidemiology of the disease is very important. With the use of two specific examples of microorganisms causing food borne infections, discuss [20]

Question 6

Describe disease transmission mechanism related to water supply and sanitation giving at least two diseases under the following:

- a) Water and disease
- b) Water borne mechanism
- c) Water- washed mechanism
- d) Water- based mechanism

Water-related mechanism

[20]