



**AFRICA
UNIVERSITY**
A United Methodist-Related Institution

"Investing in Africa's Future"

**COLLEGE OF HEALTH, AGRICULTURE & NATURAL
SCIENCES**

DEPARTMENT OF PUBLIC HEALTH AND NURSING

MASTER OF PUBLIC HEALTH

NSPH 536 ENVIRONMENTAL HEALTH

END OF SEMESTER EXAMINATIONS

April / May 2021

LECTURER: MR S. Sekenhamo

DURATION: 7 HOURS

INSTRUCTIONS

Do NOT write your name on the answer sheet.

Answer (fully) any one question of your choice.

Begin your answer for each question on a new page.

Each full question carries 100 marks.

Font: Times New Roman, Font size 12, Line space: 2.0.

Credit is given for neat, well-written and lucid work.

QUESTION 1

- a. Briefly outline the different types of water related diseases

[30]

- b. As a newly appointed public health officer, list the possible public health solutions you would recommend to the local health department in reducing the incidence of water related diseases. [20]
- c. Outline the environmental health problems faced by the world today. [30]
- d. Explain the relationship between the environmental health problems and climate change [20]

QUESTION 2

- a. Explain all the stages in the convectional water treatment processess [40]
- b. Explain the household water treatment processes [30]
- c. '80% of all hospital admission as a result of water and sanitation related diseases. Discuss. [30]

QUESTION 3

- a. Explain the alternative waste management concept [30]
- b. Briefly outline the six functional elements of solid waste management [20]
- c. Outline the cost-effective solutions for solid waste management problems being faced by local authorities [30]
- d. Explain the 3r concept in solid waste management [20]