

TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN COMMUNITY HEALTH
BSCH 15J/YEAR3/ SEMESTER1
APH 4304: WATER AND SANITATION
SEMESTER EXAMINATION
SERIES: APRIL/MAY 2016
TIME: 2 HOURS

Instructions to Candidates

This paper consists of **FIVE** questions

Answer question **ONE (COMPULSORY)** and any other **TWO** questions.

This paper consists of two printed pages.

Question 1

a) Using relevant examples, define the following concepts;

- i. Surface water **(2 marks)**
- ii. Turbidity **(2 marks)**

b) Outline the parameters to be tested for the water quality under the following categories:

- i. Biological **(2 marks)**
- ii. Chemical **(2 marks)**
- iii. Physical **(2 marks)**

c) Write short notes on the following;

- i. Waterborne diseases **(5 marks)**
- ii. Water quality **(5 marks)**

d) Describe the biological standards for water quality testing and monitoring **(5 marks)**

e) State the importance of water quality testing **(5 marks)**

Question 2

Using relevant examples, discuss the main types of water pollution **(20 marks)**

Question 3

a) Water, sanitation and health are closely related. Discuss **(10 marks)**

b) Discuss the diseases associated with water contamination indicating their source, symptoms and interventions **(10 marks)**

Question 4

Describe the main methods used in water quality testing and monitoring **(10 marks)**

Explain the industrial sewage treatment process **(10 marks)**

Question 5

a) As the chairman of Water Resource Users Association in your area, explain the legal and ethical considerations that you would make in the management of water resources.

(10 marks)

b) What challenges are associated with poor management of water resources

(10 marks)