

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/YEAR 3/ 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. Ground water **(2 marks)**
 - ii. Potable water **(2 marks)**
 - iii. Sanitation **(2 marks)**
 - iv. Turbidity **(2 marks)**
 - v. Coliforms **(2 marks)**
- b) Briefly discuss the following concepts;
- i. Disease surveillance **(5 marks)**
 - ii. Water pollution **(5 marks)**

- c) Describe the hydrological cycle (5 marks)
- d) What is the importance of water quality testing and monitoring (5 marks)

Question 2

- a) Describe the main parameters used in determining water quality (15 marks)
- b) Briefly explain the public health importance of water (5 marks)

Question 3

Discuss the nature and threats posed by environmental diseases (20 marks)

Question 4

- a) Discuss the main factors affecting water safety and protection (15 marks)
- b) Discuss the importance of water quality testing (5 marks)

Question 5

- a) Describe the importance and main elements of hygiene promotion (10 marks)
- b) Discuss the testing methods to determine the presence of bacteria in water (10 marks)