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 waterii. Turbidity(2 marks)(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)
	•	marks)
4/	Describe the highering standards for water quality testing and manifest	:
d)	Describe the biological standards for water quality testing and monitor	ing (5 marks)
e)	State the importance of water quality testing	(5 marks)
Questi	ion 2	
Using	relevant examples, discuss the main types of water pollution	(20 marks)
Questi	ion 3	
a)	Water, sanitation and health are closely related. Discuss	(10 marks)
b)	Discuss the diseases associated with water contamination indica	ating their source,
	symptoms and interventions	(10 marks)
Questi	ion 4	
Descri	be the main methods used in water quality testing and monitoring	(10 marks)
Explai	n the industrial sewage treatment process	(10 marks)
Questi	ion 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 resour	ces
		(10 marks)
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