

TAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY Faculty of Health and Applied Sciences

DEPARTMENT OF HEALTH SCIENCES

QUALIFICATION : BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES					
QUALIFICATION CODE: 08 BOHS		LEVEL: 5			
COURSE CODE: WAS512S		COURSE NAME: WATER AND SANITATION			
SESSION:	NOVEMBER 2019	PAPER:	THEORY		
DURATION:	3 HOURS	MARKS:	100		

	FIRST OPPORTUNITY EXAMINATION QUESTION PAPER
EXAMINER	MRS BUHLEBENKOSI MPOFU
MODERATOR	MS CHARMAINE JANSEN

INSTRUCTIONS

- 1. Answer ALL the questions.
- 2. Write clearly and neatly.
- 3. Number the answers clearly.

PERMISSIBLE MATERIALS	
NONE	

THIS QUESTION PAPER CONSISTS OF 3 PAGES

(Including this front page)

SECTION A [20 MARKS]

QUESTION 1

1.0 Define the following terms as used in Water and Sanitation:

1.1 Drain.	[2]
1.2 Borehole.	[2]
1.3 Reverse Osmosis.	[2]
1.4 Water related disease.	[2]
1.5 Human right.	[2]

QUESTION 2

2.0 Differentiate the following terms:

2.1.	Cold Storage and Frozen Storage.	[2]
2.2.	Ecosan Toilet and Conventional Toilet.	[2]
2.3.	Combined Sewerage and Separate Sewerage.	[2]
2.4.	Facultative Pond and Maturation Pond.	[2]
2.5.	Water borne disease and water washed disease.	[2]

SECTION B [35 MARKS]

QUESTION 3		(15 marks)
3.1. 3.2.	Identify any five (5) reasons why sewage is a public health concern. State and briefly explain any five (5) acceptable water quality aspects.	[5] [10]
QU	ESTION 4	(20 marks)
4.1 4.2	Elaborate briefly any five (5) points where manholes are required. The availability of water is considered as a basic human right. Explain wh	[10] at kev
	elements are considered under the "Water Right".	[10]

SECTION C [45 MARKS]

QUESTION 5

5.1 Explain how you would sample water from the following water points:

a) Tap
b) Lake
c) Well
5.2 Elaborate on five (5) ways one can treat water at home.
5.3 Discuss any five (5) sanitation challenges facing the country of Namibia. In your

view how can these be solved. [20]

TOTAL MARKS = 100

[15]

[10]