



NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY

**FACULTY OF HEALTH AND APPLIED SCIENCES**

**DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCES**

<b>QUALIFICATION:</b> BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
<b>QUALIFICATION CODE:</b> 08BEHS	<b>LEVEL:</b> 7
<b>COURSE CODE:</b> EPS711S	<b>COURSE NAME:</b> ENVIRONMENTAL POLLUTION AND SAFETY
<b>SESSION:</b> JUNE 2019	<b>PAPER:</b> THEORY
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

<b>FIRST OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S)</b>	MR JOSHUA HIDINWA
<b>MODERATOR:</b>	PROF OMOTAYO AWOFOLU

<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"><li>1. Answer ALL the questions.</li><li>2. Write clearly and neatly.</li><li>3. Number the answers clearly.</li></ol>

**PERMISSIBLE MATERIALS**

NONE

**THIS QUESTION PAPER CONSISTS OF 2 PAGES** (Including this front page)

## SECTION A [27 Marks]

### QUESTION 1 [26 MARKS]

- 1.1 Briefly explain the main sources through which pollutants are generally found in the environment. (5)
- 1.2 Elaborate on the key activities through which the quality of air can be compromised giving examples. (6)
- 1.3 Name and briefly explain those factors that must be considered when choosing sampling methods. (5)
- 1.4 Describe the different forms of pollution of the ecosystems. (10)

## SECTION B [29 Marks]

### QUESTION 2 [29 Marks]

- 2.1 Explain the terms scientific research and compliance monitoring. (4)
- 2.2 Outline explain the types of National Ambient Air Quality Standards as identified in the Clean Air Act of 1990. (4)
- 2.3 Enumerate the characteristics that should be possessed by air filters employed in air sampling process. (5)
- 2.4 There are several factors that may negatively affect the colour, odour, taste and turbidity of a water sample. Briefly explain these factors. (6)
- 2.5 Describe the methods by which particulate emissions can be controlled. (10)

## SECTION C [45 Marks]

### QUESTION 3 [45 Marks]

- 3.1 State the general purpose of conducting water quality examination. (5)
- 3.2 Using appropriate example, describe the solidification technique in the treatment and disposal of a solid waste. (10)
- 3.3 Describe any five (5) sources of anthropogenic activities-linked to surface water pollution and give an example in each case. (10)
- 3.4 Categorise and explain the methods that can be used in the control of water pollution. (10)
- 3.5 Briefly explain any five (5) types of Environmental Audit process. (10)

**TOTAL: 100 MARKS**

**GOOD LUCK!!!**