



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF HEALTH AND APPLIED SCIENCES**

**DEPARTMENT OF HEALTH SCIENCES**

<b>QUALIFICATION:</b> BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
<b>QUALIFICATION CODE:</b> 08BEHS	<b>LEVEL:</b> 8
<b>COURSE CODE:</b> EQM 811S	<b>COURSE NAME:</b> ENVIRONMENTAL QUALITY MANAGEMENT
<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>	PROFESSOR OMOTAYO AWOFOLU
<b>MODERATOR:</b>	PROFESSOR SHADUNG JOHN MOJA

<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**

1. Calculator

**THIS QUESTION PAPER CONSISTS OF \_1\_ PAGE (Excluding this front page)**

**SECTION A [20 Marks]****QUESTION 1 [20 Marks]**

- 1.1 Distinguish between point source and non-point source of pollution. Give an example in each case. (4)
- 1.2 Predict the strategies that can be used for the management and control of soil pollution. (5)
- 1.3 State the functions of The Ministry of Agriculture, Water and Forestry based on the Water Resources Act No. 11 of 2013 for the management of water resources. (5)
- 1.4 Explain the following terms:
- i. Environmental Quality (2)
  - ii. Environmental Standard (2)
  - iii. Water Impairment (2)

**SECTION B [36 Marks]****QUESTION 2 [36 Marks]**

- 2.1 As an Environmental Officer, discuss the measures you will propose to ensure the safety of people from environmental noise. (6)
- 2.2 Clarify the term Carbon Footprint (CF) and briefly explain how it can be reduced at community level (6)
- 2.3 The sound level of a power generator was measured at regular intervals giving the following sound level dB(A): 24, 22.5, 27.5, 25, 21.5 and 26. Calculate the average noise level. (7)
- 2.4 Outline the measures that can be used as mitigating measures of Global Warming. (8)
- 2.5 Assess the pathways by which human beings can be exposed to environmental ionizing radiation. (9)

**SECTION C [44 Marks]****QUESTION 3 [44 Marks]**

- 3.1 Distinguish between the terms ionising radiation and non-ionising radiation and give an example in each case. (8)
- 3.2 Express any six (6) activities through which water resources can become polluted. (12)
- 3.3 Concisely describe the processes involved in the treatment/purification of potable water. (12)
- 3.4 African countries including Namibia is prone to the effects of Global Warming (GW). Discuss possible effects of GW that may be experienced on the African continent. (12)

**TOTAL: 100 MARKS****GOOD LUCK!!!**