



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY
FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCE SCIENCES
DEPARTMENT OF HEALTH SCIENCES**

QUALIFICATION: BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
QUALIFICATION CODE: 08BOHS	LEVEL: 8
COURSE CODE: EQM 811S	COURSE NAME: ENVIRONMENTAL QUALITY MANAGEMENT
SESSION: JULY 2022	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

SUPPLEMENTARY/SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	PROF OMOTAYO AWOFOLU
MODERATOR:	PROF SHADUNG JOHN MOJA

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

PERMISSIBLE MATERIALS

1. Calculator

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

SECTION A [23 Marks]

QUESTION 1 [23 Marks]

- 1.1 Explain the main activities through which the quality of air can be compromised and give appropriate examples. (5)
- 1.2 Specify the factors or activities that can potentially lead to the contamination of drinking water resources in a rural community? (6)
- 1.3 Describe the water quality monitoring activities you will carry out during water contamination incident in a community. (6)
- 1.4 As an EHP, briefly explain and give an example of any four (4) measures you will propose to municipal manager to prevent air pollution and ensure clean air (6)

SECTION B [29 Marks]

QUESTION 2 [29 Marks]

- 2.1 Briefly explain the following terms:
(i) Water quality standard (4)
(ii) Cost-benefit- analysis (4)
- 2.2 Identify health effects of an exposure to ionizing radiation (IR) on human being. (6)
- 2.3 Enumerate the main functions of the responsible Government Agency for the Namibia Water Act No. 11 of 2013. (5)
- 2.4 Anthropogenic activities are known to contribute to atmospheric pollution. Discuss any five (5) of these activities. (10)

SECTION C [48 Marks]

QUESTION 3 [48 Marks]

- 3.1 State the measures you will take in order to manage degraded soil as a result of anthropogenic activities. (6)
- 3.2 (i) Briefly explain the term "Ambient Noise". (2)
(ii) Given the following set of Sound Level Data (dB (A): 32, 30, 37, 33, 29 and 35. In a stepwise manner, calculate the Average Noise Energy over a 24hr period. (6)
- 3.3 Examine the different forms of naturally occurring radiation (10)
- 3.4 (i). Recall your understanding of the concept of Global Warming (3)
(ii). Briefly explain the implications of any six (6) of its' consequences on the environment (9)
- 3.5 Some safety measures can be implemented in order to prevent Environmental Noise and ensure human health. Discuss these safety measures. (12)

GOOD LUCK!!!

TOTAL: 100 MARKS