



PANIBIA 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: JUNE 2022	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	PROFESSOR OMOTAYO AWOFOLU
MODERATOR:	PROFESSOR 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 3 PAGES (Including this front page)

SECTION A [24 Marks]

QUESTION 1 [24 Marks]

- 1.1 A rural community is faced with potential contamination of their water resources. Express any four (4) the strategies you will propose to prevent such incident. (4)
- 1.2 Enumerate the purpose of conducting portable water quality monitoring. (6)
- 1.3 Explain any four (4) modes through which poor water quality can indirectly affect human health. (6)
- 1.4 In Tabular form, differentiate between ionizing radiation and non-ionizing radiation. (8)

SECTION B [32 Marks]

QUESTION 2 [32 Marks]

- 2.1 As an EHP, clarify the education information on effects of exposure to ionizing radiation on human health you will provide to Matric students on a tour to an Uranium Mine. (5)
- 2.2 Briefly discuss the following air pollution management and control measures. (6)
- 2.3 The City of Windhoek requires guidance on the most effective Solid Waste Management and Control strategy to adopt. Waste reduction at source was identified as the most effective strategy. Provide arguments to justify this claim. (5)
- 2.4 The sound level of a power generator was measured at regular intervals giving the following sound level dB(A): 96, 90, 110, 100, 86 and 104. Calculate the average noise level. (6)
- 2.5 Discuss any five (5) anthropogenic activities that can contribute to pollution of the ambient air. (10)

SECTION C [44 Marks]

QUESTION 3 [44 Marks]

- 3.1 Examine any five (5) safety measures and control of Environmental Noise (5)
- 3.2 3.2.1 Recall the concept of Carbon Footprint (CF) (2)
3.2.2 State any five (5) ways of contribution to reduction of CF by an individual (5)
- 3.3 Specify the any five (5) factors that could be responsible for the contamination of potable water supply by the municipality (10)
- 3.4 Briefly describe the concept of "Green House Effects" and support your description with a diagram (12)

3.5 African continent may experience the impact of Global Warming (GW) despite relatively low contribution to GHG emission. Discuss any five (5) possible effects of GW on the continent (10)

TOTAL: 100 MARKS

GOOD LUCK!!!