



**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: 7
COURSE CODE: EPS 711S	COURSE NAME: ENVIRONMENTAL PROTECTION AND SAFETY
SESSION: JUNE 2022	PAPER: THEORY
DURATION: 3 HOUR	MARKS: 100

1ST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	PROFESSOR OMOTAYO AWOFOLU
MODERATOR:	Ms HAUFIKU MOUYELELE

PERMISSIBLE MATERIALS

1. NONE

THIS EXAMINATION QUESTION PAPER CONSIST OF 3 PAGES (Including this front page)

SECTION A [26 Marks]

QUESTION 1 [23 MARKS]

- 1.1 Briefly explain the main sources/pathways through which pollutants are generally found in the environment. (5)
- 1.2 Clarify the key activities through which the quality of air can be compromised giving examples. (6)
- 1.3 Outline and briefly explain factors to be considered when choosing a sampling method during collection and analysis of environmental samples (6)
- 1.4 Pollution of the ecosystems can be of different forms. Briefly discuss any three (3) of these forms. (9)

SECTION B [27 Marks]

QUESTION 2 [27 Marks]

- 2.1 Differentiate between the terms:
 (i). Scientific research and compliance monitoring (4)
 (ii). Primary and Secondary Air Quality Standards (4)
- 2.2 Enumerate the characteristics that should be possessed by air filters employed in air sampling process. (5)
- 2.3 (i). Specify the main provisions of the Water Resources Management Act No. 11 of 2013 (3)
 (ii). Enumerate the objectives of this Act (4)
- 2.4 Using diagram, describe the any one method by which particulate from gaseous Emissions can be controlled. (7)

SECTION C [47 Marks]

QUESTION 3 [47 Marks]

- 3.1 In water quality examination, it is important to firstly establish the purpose of the examination. State any five (5) purpose of conducting this exercise (5)
- 3.2 Using appropriate example, describe the solidification technique in the treatment and disposal of a solid waste. (8)
- 3.3 Categorise and explain the methods that can be used in the control of water pollution. (10)

- 3.4 Briefly explain any four (4) types of Environmental Audit (EA). (8)
- 3.5 The NUST is planning to construct a sports arena on the open land behind the Hotel School.
- (i). Conduct a scoping exercise prior to commencement of construction. (10)
 - (ii). Propose prediction and mitigation measures that may be required for the process (6)

TOTAL: 100 MARKS

GOOD LUCK!!!