



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF NATURAL AND APPLIED SCIENCES

QUALIFICATION : BACHELOR OF SCIENCE HONOURS	
QUALIFICATION CODE: 08BOSH	LEVEL: 8
COURSE: ENVIRONMENT PHYSICS	COURSE CODE: ENP811S
SESSION: JUNE 2022	PAPER: THEORY
DURATION: 3 Hours	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
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THIS QUESTION PAPER CONSISTS OF 3 PAGES
(Including this front page)

QUESTION 1 [24]

- 1.1 Why is environmental science refer to as interdisciplinary? (4)
- 1.2 Environmental Scientist are growing increasingly concern about the increasing levels of carbon dioxide. Discuss. (4)
- 1.3 Describe the global, regional and local environmental problems that Environmental Scientists have identified and attempt to solve. (6)
- 1.4 Describe how temperature changes with season in the northern hemisphere. (5)
- 1.5 What is the mesosphere and what characterises temperature in the mesosphere? (5)

QUESTION 2 [22]

- 2.1 Explain the term surface wind and discuss how it is formed. (5)
- 2.2 Differentiate between tropical climate zone and dry climate zone. (6)
- 2.3 Describe what makes the earth to quake. (5)
- 2.4 Explain the following words as apply to the natural disaster call earthquake:
 - 2.4.1 Fault zones. (2)
 - 2.4.2 Focus. (2)
 - 2.4.3 Epicenter. (2)

QUESTION 3 [21]

- 3.1 Describe the method of Identifying carcinogenic substances and why you think the method is indirect and uncertain. (6)
- 3.2 In ecosystem and energy the term community is often used. Differentiate between a community and ecosystem. (6)
- 3.3 Explain the layer of the atmosphere called the exosphere. (3)

3.4 Explain the carbon cycle and discuss the importance of the carbon cycle to organism on earth. (6)

QUESTION 4 [33]

4.1 Classify air pollutant and give two example each. (9)

4.2 What is meant by Smog? What are the two types of Smog? (4)

4.3 Discuss the cause and effects of two types of Smog. (10)

4.4 Define plume. (3)

4.5 Which plume is the most favourable with respect to minimising air pollution and why? (3)

4.6 Illustrate with the aid of a neat diagram how atmospheric condition give rise to a lofting plume. (4)

END