



SCHOOL	SCIENCE		
DEPARTMENT	ENVIRONMENTAL SCIENCE		
SUBJECT	ENVIRONMENTAL MANAGEMENT AND GOVERNANCE		
SUBJECT CODE	GSP3800		
DATE	NOVEMBER 2021		
DURATION	2 HOURS	MARKS	70

NORMAL EXAMINATION

Examiner: Ms Margaret N. Angula, Dr. Selma Lendelvo & Ms. Nguza Siyambango

Internal Moderator: Dr. Simon Angombe (UNAM)

External Moderator: Prof. S.E. Donaldson (University of Stellenbosch)

This question paper consists of **03 pages** including this cover page

INSTRUCTIONS

1. Answer all questions in Section A
2. Answer TWO questions only in Section B
3. Write neatly and legibly
4. Number your questions correctly and clearly.

Additional materials: None

UNIVERSITY OF NAMIBIA EXAMINATIONS

Question 1

1.1 With examples, explain how environmental auditing data can be used internally in an organization? (5)

1.2 What is the importance of baselines and how are they linked to environmental auditing (5)

1.3 Public pressure over environmental issues has created a new set of constraints on industrial companies. Discuss how EIA can solve these constraints (10)

Question 2

2.1 The concept of Integrated Environmental Management is holistic and complex enough to incorporate all dimensions that are required for best management outcomes. Identify 4 of these dimensions and critically argue how are they incorporated into the “Integrated Water Resources Management Approach”. (16)

2.2 The latest IPCC report was released in August 2021. What is the critical scientific message contained in this report? (3) Critically discuss what does global warming scientific projections mean for Namibia? (5) [8]

2.3 Sustainability concept has three pillars that bring together environmental protection and socio-economic developmental needs. Discuss and analyse how these pillars were incorporated in NDP 5 and Harambee Prosperity Plan. (6)

Question 3

3.1 Describe the concept of nested adaptive cycles including the different transitions involved and for each transition provide an example using different types of ecosystems. (10)

SECTION B: PLEASE CHOOSE TWO QUESTIONS ONLY

Question 4

The IPCC vulnerability assessment framework is the main approach used in assessing both social and bio-physical vulnerability for Namibia and the UNFCCC. Apply the IPCC vulnerability framework and discuss the socio-economic vulnerabilities of three Regions in Namibia namely: Ohangwena, Zambezi and Hardap Regions. In your conclusion, indicate which region is more vulnerable and why? (20)

Question 5

Suppose you are an environmental scientist at the Ministry of Environment and Tourism in Namibia. You are tasked to give a presentation to Governors and Chief Regional Officers from all Regions of Namibia on the following: What is environmental governance and why is it important to apply its principles to achieve sustainability in the water basins management approach for Namibia? In answering this question, write out the narration of your presentation including explanation and examples that you would use to address the Governors and CROs. (20)

Question 6

Human-wildlife conflict and wildlife crime are among the events causing the conservation to collapse. Using the adaptive management approach, clearly discuss how the Community-management approach can be used as a tool to build resilience and promote sustainability of wildlife management in Namibia. (20)

TOTAL

100 Marks