

FACULTY	AGRICULTURE, ENGINEERING & NATURAL SCIENCES
SCHOOL	SCIENCE
DEPARTMENT	ENVIRONMENTAL SCIENCE
SUBJECT	INTEGRATED NATURAL RESOURCES MANAGEMENT II
SUBJECT CODE	EBL 3852
DATE	NOVEMBER 2021
DURATION	3 hours
MARKS	120

# **REGULAR EXAMINATION**

Examiners: Prof I. Mapaure (University of Namibia)

Dr C. Hay (University of Namibia)

Moderator: Prof C.T. Downs (University of KwaZulu-Natal)

This examination paper consists of 3 pages (including the front page)

# **Instructions**

- Answer <u>all</u> questions from Section A (<u>Total of 60 marks</u>)
- Answer only 2 questions from Section B. (Total of 60 Marks)
- The use of scientific calculators is allowed

#### **SECTION A**

### Answer ALL questions from Section A.

### Question 1 [30 marks]

parameter.

1.1.Section 22 of the Namibia Forest Amendment Act 13 of 2005 deals with the allow harvest from forest reserves and community forests. It states: Subject to a relemanagement plan, the Director shall determine the quantity of forest produce for whice licence may be issued in any a forest reserve or a community forest and the maxiquantity of forest produce which may be harvested under section 24 (3). Mr Mlambo to harvest trees for fencing poles, and he applies for a permit. Outline what the Dirmust consider when determining the allowable quantity of poles for Mr Mlambo to ha	evant nich a imum wants rector	
1.2. Explain how the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) seeks to achieve conservation of biodiversity.	(7)	
1.3. Briefly discuss the advantages and disadvantages of a Command Economy.		
1.4. Explain how human economics and ecology are inextricably linked and why important to understand the link.	it is (5)	
Question 2 [30 marks]		
2.1. Explain how energy and water are interconnected.	(5)	
2.2. Develop a long-term goal for Integrated Water Resource Management for Namibia		
2.3. Elaborate on the principles linking fishing effort and yield.		
2.4. Clarify the catch per unit effort concept by citing the formula and explaining each		

2.5. Expand on the process you would follow to launch an Environmental Management

System (EMS) for a newly established company.

Sub-total marks (Section A) = 60

(7)

(7)

#### **SECTION B**

Answer any TWO questions from Section B.

#### Question 1 [30 marks]

Discuss the advantages and disadvantages of co-management of forests. (30)

#### Question 2 [30 marks]

- 2.1. Develop a protocol for the Operating Procedures of an Environmental Management System. (20)
- 2.2. Discuss the Water Demand Management strategies of Namibia? (10)

## Question 3 [30 marks]

Discuss the concept of integrated coastal zone management. (30)

Sub-total marks (Section B) = 60

Grand Total Marks =120

\*\*\*END OF QUESTION PAPER \*\*\*