



FACULTY	AGRICULTURE, ENGINEERING & NATURAL SCIENCES
SCHOOL	SCIENCE
DEPARTMENT	ENVIRONMENTAL SCIENCE
SUBJECT	INTEGRATED NATURAL RESOURCES MANAGEMENT II
SUBJECT CODE	EBL 3852
DATE	FEBRUARY 2023
DURATION	3 Hours
MARKS	100

PROMOTIONAL EXAMINATION

Examiners: Prof I. Mapaure (University of Namibia)

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Moderator: Prof E. Kwembeya (University of Namibia)

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

Instructions

- Answer all questions from Section A (Total of 50 marks)
- Answer only 2 questions from Section B. (Total of 50 Marks)
- The use of scientific calculators is allowed

EXAMINATION PAPER

Section A

Answer **all** questions from this section

Question 1 [25 marks]

- 1.1. Discuss any six (6) disadvantages of co-management of forests. (6)
- 1.2. Each year on 3rd of March, we celebrate the United Nations World Wildlife Day. In 2022, the Theme of the World Wildlife Day was *Safeguarding key species for ecosystem restoration*. The World Wildlife Day is commemorated in various ways by all countries of the world every year.
- (a) Suggest a Theme for World Wildlife Day for this year 2023. (2)
- (b) Design a Poster depicting a crucial message for Namibia's commemoration of World Wildlife Day 2023. Be creative and innovative! Use a mixture of drawings and limited text and must directly relate to your Theme. (6)
- 1.3. Section 22(1b) of the Namibia Forest Act 13 of 2001 states: "*No person shall, on any land which is not part of a surveyed erven of a local authority area as defined in section 1 of the Local Authorities Act, 1992 (Act No. 23 of 1992) cut, destroy or remove any living tree, bush or shrub growing within 100 metres of a river, stream or watercourse*". Despite this Regulation, many rural communities still cut down trees within 100m of a river without obtaining licences to do so. Discuss why this is the case. (6)
- 1.4. Governments are promoting and encouraging the marketing and sale of Non-timber forest products (NTFPs) by local communities in order to achieve conservation goals. Discuss the link between commercialisation of NTFPs and forest conservation. Include aspects of the sustainability of NTFPs harvesting in your answer. (5)

Question 2 [25 marks]

- 2.1. Discuss the features of a sustainable fishery in the marine environment. (8)
- 2.2. Explain the relationship between energy and water. (4)
- 2.3. Explain the importance of Water Resource Management and its implications on future generations. (10)
- 2.4. Define environmental auditing. (3)

Sub-total marks (Section A) = 50

Section B

Answer any **TWO** questions from this section

Question 1 [25 marks]

Review the harvesting strategies which may be used to harvest wild game animals. (25)

Question 2 [25 marks]

The misuse and scarcity of water led to the formulation of four guiding principles during a water conference held in Dublin in 1992. List these four principles and elaborate on each of these. (25)

Question 3 [25 marks]

Clarify the concept of integrated coastal management. (25)

Sub-total marks (Section B) = 50

Grand Total Marks =100

*****END OF EXAMINATION *****