



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

DEPARTMENT OF NATURAL RESOURCE SCIENCES

QUALIFICATION: BACHELOR of NATURAL RESOURCE MANAGEMENT HONOURS	
QUALIFICATION CODE: 08BNRH	LEVEL: 8
COURSE CODE: IWW821S	COURSE NAME: INTEGRATED WATER AND WETLAND MANAGEMENT
SESSION: JULY 2025	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 110

SECOND OPPORTUNITY / SUPPLEMENTARY EXAMINATION PAPER	
EXAMINER(S)	Mr. R Kavari
MODERATOR:	Ms. N NASHIPII

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Read all the questions carefully before answering.3. Number the answers clearly

THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this front page)

QUESTION 5 INTERNATIONAL- LEVEL RIVER BASIN MANAGEMENT

At international level river basin management is generally the responsibility of River Basin Management Commissions like the Permanent Okavango River Basin Commission (OKACOM).

- 5.1 Rivers are a lifeline to all the living organism dependent on it. There is a need to ensure that these lotic systems are managed in an integrated manner. Research studies such as the OKACOM Transboundary Diagnostic Analysis and Environmental Flow Assessments provide valuable information to guide sustainable development along these wetlands. Briefly, describe the steps used by the OKACOM team in the DRIFT method (Downstream Response to Imposed Flow Transformation), when conducting the environmental flow requirements of the Kavango river. (12)
- 5.2 Discuss the main social impact that was identified by the Environmental Flows Assessment of the Okavango River Basin. Quantify the losses in US\$, identified for each of the three water use scenarios. (3)

[15]

QUESTION 6 INTEGRATED WATER RESOURCES MANAGEMENT (IWRM)

- 6.1 The overall long-term goal of IWRM in Namibia is to achieve a sustainable water resources management regime contributing to social equity, economic efficiency and environmental sustainability. Write an essay in which you clearly indicate the progress of Namibia with reference to the above mentioned goal. Use realistic examples to motivate your discussion. (20)

[20]

TOTAL - 110