



**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS**

**FOR THE DEGREE OF**

**MASTERS OF SCIENCE IN WATER RESOURCES  
ENGINEERING**

**COURSE CODE: CWE 804**

**COURSE TITLE: HYDROPOLITICS**

**DATE: FRIDAY 29<sup>TH</sup> APRIL 2022      TIME: 8.00 – 11.00 AM**

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**INSTRUCTIONS:**

1. This paper contains **FIVE** questions
2. Answer any other **FOUR** questions
3. Marks for each question are indicated in the parenthesis.
4. Examination duration is **3 Hour**

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

**QUESTION 1 (20 Marks)**

- (a) Differentiate between Sanctioned Discourse and Hydraulic Mission as used in Hydropolitics [4 Marks]
- (b) Hydropolitical complexes are emerging to negotiate water-sharing policies that promote political stability, regional security, economic prosperity, and environmental sustainability. Briefly discuss the variables that drives this complexity [16Marks]

**QUESTION 2 (20 Marks)**

A number of sovereign states, in pursuit to their national self-interest and those policies that would best assure the regime's survival have embarked on putting large dams in a trans-boundary river course, basically for economic and social development. This has created huge problems in parts of the world in some cases resulting into conflict. Discuss. [20 Marks]

**QUESTION 3 (20 Marks)**

- (a) Differentiate between the following [4 Marks]
- i. Negotiated settlement and qualified negotiated settlement [4 Marks]
  - ii. Water Laws and Water Protocols
- (b) It has been argued that water scarcity is the largest threat facing humanity in the 21<sup>st</sup> century, however there are also dissident voices suggesting that it is not water scarcity *per se*, but rather the mismanagement of water that is the main problem. Discuss. [12 Marks]

**QUESTION 4 (20 Marks)**

- (a) Discuss the three (3) situations that may lead to Water scarcity [6 marks]
- (b) Briefly discuss how a sovereign states, pursuing national self-interest and those policies that would best assure the regime's survival, cope with the challenge of bi- or multi-national coordination in the use of a transboundary water [14 Marks]

**QUESTION 5 (20 Marks)**

- (a) Discuss the 'closure' of river Basin and what can be done to open it [6 Marks]
- (b) Discuss the challenges of River Basin Management and briefly explain the phases of river basin development [14 Marks]