

MACHAKOS UNIVERSITY

University Examinations For 2021/2022 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT DEPARTMENT OF ENVIRONMENTAL SCIENCES FIRST YEAR FIRST SEMESTER EXAMINATION FOR

MASTER OF ENVIRONMENTAL SCIENCE

ENS 810: INTEGRATED WATER RESOURCES MANAGEMENT

DATE: TIME:

INSTRUCTIONS: Answer Question **ONE** and any other **THREE** Questions

QUESTION ONE (15 MARKS)

Discuss five factors contributing to increasing water demand and their potential impacts

QUESTION TWO (15 MARKS)

Critically evaluate Kenya's approach to Water Resources Management

QUESTION THREE (15 MARKS)

Discuss the fundamental steps in the water planning process which you would follow if you were given the task of preparing a water Master Plan for your home County

QUESTION FOUR (15 MARKS)

Explain the various components of the Hydrological Cycle and highlight possible human intervention areas for water supply development

QUESTION FIVE (15 MARKS)

Discuss the water treatment and conservation technologies as applied in Kenya and highlight the possible mitigation measures to the challenges encountered