



# MACHAKOS UNIVERSITY

University Examinations for 2023/2024 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN COMMUNITY RESOURCE MANAGEMENT

ECD 202: COMMUNITY WATER RESOURCES AND SANITATION MANAGEMENT

DATE:

TIME:

---

**INSTRUCTIONS:** Answer Question **ONE (Compulsory)** and any other **TWO** Questions

## QUESTION ONE (30 MARKS)

- a) Explain the meaning of the following
- Water quality assessment (2 marks)
  - Sanitation (2 marks)
  - Water pollution (2 marks)
- b) Explain the importance of water quality monitoring in Kenya (4 marks)
- c) Explain the approach used in managing water resources in Kenya (8 marks)
- d) Describe the waste water treatment process as practiced in Kenya (12 marks)

## QUESTION TWO (20 MARKS)

Using examples discuss how anthropogenic activities impact negatively on community water resources

## QUESTION THREE (20 MARKS)

- a) Explain the efforts taken by the Kenyan government towards attainment of Sustainable Development Goal number 6 (12 marks)
- b) You have been tasked to undertake a drinking water quality assessment for Machakos university, explain the key water quality parameters you would consider (8 Marks)

**QUESTION FOUR (20 MARKS)**

Explain the roles of the different institutions in community water resources and sanitation management in Kenya

**QUESTION FIVE (20 MARKS)**

Discuss the challenges of solid waste management practices in Kenya and suggest possible mitigation measures