



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

.....YEAR SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE MANAGEMENT)

ECD 204: COMMUNITY WATER RESOURCES AND SANITATION MANAGEMENT

DATE:

TIME:

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the meaning of the following terms
- Sanitation (2 marks)
 - Water quality (2 marks)
 - Cleaner production (2 marks)
- b) Describe the physicochemical parameters that can be measured when carrying out water quality assessment in Kenya (16 marks)
- c) Explain four principal objectives of water quality monitoring (8 marks)

QUESTION TWO (20 MARKS)

Describe the treatment and disposal methods for wastewaters as practiced in Machakos town

QUESTION THREE (20 MARKS)

Discuss the efforts taken by the Kenyan government towards attainment of SDG goal number 6 on availability and sustainable management of water and sanitation for all

QUESTION FOUR (20 MARKS)

Critically analyze Kenya's Public Health Act in relation to community water resources and sanitation management

QUESTION FIVE (20 MARKS)

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