

MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN COMMUNITY RESOURCE MANAGEMENT

ECD 204: COMMUNITY WATER RESOURCES AND SANITATION MANAGEMENT

DATE: 13/8/2021 TIME: 2.00-4.00 PM

INSTRUCTIONS;

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Explain the meaning of the following terms
 - i. Water quality assessment (2 marks)
 - ii. Cleaner production (2 marks)
 - iii. Incineration (2 marks)
 - iv. Waste management (2 marks)
 - v. Chemical Oxygen Demand (2 marks)
- b) Explain the relevance of 3Rs (Reduce, Reuse and Recycle) in waste management (6 marks)
- c) Describe the wastewater treatment process as practiced in Machakos Decentralized
 Treatment Facility. (14 marks)

QUESTION TWO (20 MARKS)

Discuss point and non-point sources of water pollution in your home County and suggest viable mitigation measures to curb water pollution.

QUESTION THREE (20 MARKS)

Discuss the current waste management practices in Kenya and their implication to human health.

QUESTION FOUR (20 MARKS)

Using examples, discuss the role of various stakeholders in community water resources management in Kenya

QUESTION FIVE (20 MARKS)

Critically evaluate the relevance of Environmental Management and Co-ordination (Waste Management) Regulations of 2006 in Kenya