



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
 - i. Water quality assessment (2 marks)
 - ii. Sanitation (2 marks)
 - iii. 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