



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF ENVIRONMENTAL STUDIES AND COMMUNITY DEVELOPEMENT

ECD 204: COMMUNITY WATER RESOURCES AND SANITATION MANAGEMENT

DATE: Monday, 14th June 2021

TIME: 8.00a.m - 10.00a.m

INSTRUCTIONS

Answer Question ONE and any other TWO Questions

1. a) Distinguish between the following terms:-
 - i) Wastewater and sanitation (4 marks)
 - ii) Blackwater and greywater (4 marks)
 - iii) Water scarcity and water deficit (4 marks)
 - iv) Stream standards and effluent discharge standards. (4 marks)
- b) Explain the main stages in conventional water treatment process. (14 marks)
2. a) What do you understand by sustainable urban sanitation (5 marks)
- b) Discuss main features that comprise sustainability of urban sanitation. (15 marks)
3. a) What is sludge? (2 marks)
- b) Explain major problems in sludge management (18 marks)
4. Expanding "Marine dead zones" are likely to be a major challenge to sustainable blue economy. Discuss this statement with reference to the coastal zone of Kenya. (20 marks)
5. Discuss preventive and curative solutions to eutrophication using suitable case studies. (20 marks)