

MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations 2015/2016

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT DEPARTMENT OF ENVIRONMENTAL STUDIES

FIRST SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

ECD 204: COMMUNITY WATER RESOURCES AND SANITATION MANAGEMENT

Date	:		Time:
INST	TRUCT	IONS:	Answer Question one and any other two questions
1.	a)	Expla	in the meaning of the following terms
		i)	Electrical conductivity (2 marks)
		ii)	Cleaner production (2 marks)
		iii)	Eutrophication (2 marks)
		iv)	Water quality assessment (2 marks)
			v) Waste management (2 marks)
	b)	Expla	in four principal objectives of water quality monitoring (8 marks)
	c)	Expla marks	in the concept of pollution prevention as applied in waste management (6

Explain three major challenges of solid waste management in Kenya (6 marks)

d)

- vi) a) Nairobi River is heavily polluted along its course, discuss five possible causes of water pollution along this river. (10 marks)
- b) Explain four factors that influences dissolved oxygen levels in fresh water ecosystems in Kenya (10 marks)
 - vii) Using examples, discuss the implications of wastes on community water resources in Kenya (20 marks)
 - viii) Critically evaluate Kenya's Water Act and Public Health Act in relation to community water resources and sanitation management (20 marks)
 - ix) Describe the treatment and disposal methods for wastewaters as practiced in Kenya (20 marks)