

MACHAKOS UNIVERSITY

University Examinations For 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ERC 321: WATER AND MARINE RESOURCES MANAGEMENT

DATE: 15/4/2019 TIME: 2:00 – 4:00 PM

INSTRUCTIONS: Answer Question one and any other two questions

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1.	a)	Explain the meaning of the following	
		i) Lentic ecosystems	(2 marks)
		ii) Sediment Sluicing	(2 marks)
		iii) Estuaries	(2 marks)
		iv) Coral reefs	(2 marks)
		v) Watershed	(2 marks)
	b)	Explain the possible ecological impacts that may result from the cons	truction of
		Thwake dam in Makueni County.	(10 marks)
	c)	Using examples explain why water resources planning and management	ent is
		important in Kenya.	(10 marks)
2.	Citing examples, discuss five challenges facing the management of aquatic resources		
	Kenyan lakes and suggest possible remedial measures that can be used to manage the		
	resour	rces sustainably.	(20 marks)
3.	Using examples, explain the benefits of marine resources to local communities living		
	along	the Kenyan Coast line	(20 marks)
4.	a)	Describe the organizational structure and the roles of Water Resource	s Authority
		in Kenya.	(10 marks)
	b)	Discuss the principles of Integrated Water Resources Management.	(10 marks)
5.	Expla	Explain the effects of heavy metals and pesticides on aquatic ecosystems and human	
	health	1.	(20 marks)