

MACHAKOS UNIVERSITY COLLEGE

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

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (ENVIRONMENTAL RESOURCE CONSERVATION)

ERC 108: NATURAL RESOURCE UTILIZATIONS AND MANAGEMENT

Date: 4/12/2015	Time:8:30 – 10:30 AM		
 INSTRUCTIONS: Answer ALL questions in section A and ANY TWO questions in section B 1. a). Define each of the following terms 			
i) Rights	(2 Marks)		
ii) Civil Law	(2 Marks)		
iii) Criminal Law	(2 Marks)		
iv)Strict Liability	(2 Marks)		
v) The Law of Tort	(2 Marks)		
b). Explain the FIVE general principles of rip	parian zone protection (5 Marks)		
c) Explain any FIVE principles guiding the implementation of the Wildlife Conservation and			
Management Act, 2013 of the laws of Ken	ya (5 Marks)		
d) Describe any FIVE ways in which insuran	the influences the law of tort (5 Marks)		
e) Discuss the FIVE general objectives of cr	iminal law (5 Marks)		
2. a). Explain any EIGHT functions of a ripari	an zone (12 Marks)		
b). Explain any FOUR reasons for which the Water Resources Management Authority may			
vary the use of a permit at request of the p	bermit holder (4 Marks)		
c). List down the FOUR main challenges facing water sector under the Water Act Chapter			
372	(4 Marks)		

3.	a). Explain the FOUR Dublin Principles in relation to water resources utilization and		
		management	(8 Marks)
	b).	Explain any FOUR advantages of hydrological studies of a watershed	(4 Marks)
	c).	Explain any EIGHT categories of water use in a country	(8 Marks)
4.	a).	List down the FOUR functionss of water service providers	(4 Marks)
	b)	. State any SIX activities that may require a prior written approval of the Director	or General
		NEMA before they are carried out in relation to a lake, river, or wetland	(6 Marks)
	c).	• Outline any TEN functions of the National Land Commission	(10 Marks)
5.	a)	Explain any SIX functions of the Mau forest ecosystem in Kenya	(6 Marks)
	b) Explain any SIX main functions of the Kenya Forest Service under the Kenya Forest Act,		Forest Act,
		2005	(6 Marks)
	c)	Explain any SIX functions of mangrove ecosystems	(8 Marks)