

MACHAKOS UNIVERSITY COLLEGE

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

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT DEPARTMENT OF ENVIRONMENTAL STUDIES

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

ECD 205: PRINCIPLES OF INTEGRATED WATERSHED MANAGEMENT

Date: 18/4/2016 Time: 8:30 – 10:30 AM

INSTRUCTIONS

This paper consists of FIVE questions

Answer question one and other two questions in this paper

QUESTION ONE.

i.

a) Explain the meaning of the following terms

Watershed

	ii.	Ecosystem Services	(3 marks)	
	iii.	Watershed management	(3 marks)	
	iv.	Stakeholder analysis	(3 marks)	
	v.	Stream order	(3 marks)	
b)	Watersh	Watershed management is continuous and needs a multidisciplinary approach. Explain		
			(5 marks)	
c)	Outline	the typical steps in a watershed management cycle	(10 marks)	

(3 marks)

QUESTION TWO

Citing specific examples, discuss the impacts of land use activities on water resources in a watershed of your choice. (20 marks)

QUESTION THREE

Using examples, explain four categories of ecosystem services in a specific watershed in Kenya.

(20 marks)

QUESTION FOUR

Explain four principles of integrated watershed management

(20 marks)

QUESTION FIVE

a) Explain five differences between participatory and collaborative watershed management.

(10 marks)

b) Explain four possible adaptation measures to climate change in watersheds (10 marks)