

KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011 INSTITUTE OF OPEN LEARNING (IOL)

EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION AND BACHELOR OF SCIENCE

SBT 407: ARID LAND ECOLOGY

DATE: Friday, 4th February, 2011 TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS: Answer **ALL** questions in SECTION A and any **ONE** question in SECTION B. Answers in SECTION A should written in the spaces provided below each question.

- 1. Define or explain:
 - a) Aridity

b) Cutoff drains

c) Agrosylvopastoralism

	e) ALDEV
2.	Discuss gully reclamation.
3.	On what basis is irrigation water classified?

Carrying capacity of land

d)

4.	Differentiate between saline and sodic soils.
5.	Describe natural vegetation in ecoclimatic zone V.
6.	Discuss challenges of reafforestation of ASAL with indigenous tree species.
7.	Discuss the rationale for economic development of ASAL.

8.	Differentiate between Vertisols, Aridsols and Alfisols.
SECT	ION B: ESSAY (30 MARKS) WRITE AN ESSAY ON ANY ONE OF THE
FOLL	OWING.
1.	Development issues of ASAL of Kenya.
2.	Methods of water conservation in ASAL.
2	
3.	Grazing management systems for ASAL.