



TECHNICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN CIVIL
ENGINEERING
[Institutional Based Programmes]

ECE 2513: WATER RESOURCES ENGINEERING II

END OF SEMESTER EXAMINATION
SERIES: AUGUST 2013
TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Pocket Calculator*

This paper consists of **FIVE** questions.

Answer question **ONE** any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

Describe in great detail the riparian doctrine (30 marks)

Question Two

Outline the National Water Policy (30 marks)

Question Three

Outline clearly the steps to be taken in an engineering economy study. (20 marks)

Question Four

Describe the water harvesting and conservation techniques. (20 marks)

Question Five

Describe in details the functional requirements in water multiple-purpose projects. (20 marks)