## CHUKA



## UNIVERSITY EXAMINATIONS

## EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

## ECON 445: ENVIRONMENTAL ECONOMICS

STREAMS: BSC
TIME: 2 HOURS
DAY/DATE: MONDAY 09/12/2019
11.30 A.M. - 1.30 P.M.

INSTRUCTIONS: Answer question ONE and any other TWO questions

## QUESTION ONE

(a) Discuss the following terms as used in economics
(i) Environmental economics
(ii) Resource economics
(iii) Externality
(iv) Pubic good
(v) Sustainability
(b) Discuss the concepts of sustainability [5 marks]
(c) Water users associations are public utility providers of water in different areas of the country. Using relevant illustrations, discuss how efficient allocation of water is attained

## QUESTION TWO

(i) Using a diagram, discuss the relationship between the environment and economic growth [15 marks]
(ii) Discuss the coase theorem of transaction cost as applied in environmental economics

## QUESTIONTHREE

(i) Discuss the optimal pollution levels with assimilative capacity
(ii) Consider the actions of a processor located upstream and releases effluents into a river utilized by other users located downstream. Discuss how efficiency can be attained in containing the externality.

## QUESTION FOUR

(i) Discuss the criterial of choosing the best environmental policies
(ii) The mix and distribution of greenhouse gases within the atmosphere can modify the climate. Discuss strategies that have been identified to be used in combating climate change.

