



AFRICA
UNIVERSITY
A United Methodist-Related Institution

"Investing in Africa's Future"

**COLLEGE OF SOCIAL SCIENCES, THEOLOGY HUMANITIES
AND EDUCATION
DEPARTMENT OF SOCIAL SCIENCES**

**HES 423 NATURAL RESOURCE MANAGEMENT AND ECONOMICS
END OF SECOND SEMESTER EXAMINATIONS**

APRIL/MAY 2019

LECTURER: G. R. CHIMONYO

DURATION: THREE HOURS

INSTRUCTIONS

1. Do NOT write your name on the answer sheet
2. Use answer sheets provided
3. Answer any **THREE (3)** questions
4. Read and understand all questions and instructions before your answer
5. Where necessary, illustrate your answers with sketches, figures and diagrams
6. Each question is marked out of 20 marks
7. Take note of mark distribution in each question
8. Begin your answer for each question on a new page
9. Credit is given to neat presentation of answers

Question One

‘The economist’s notion of natural resources is difficult to apply in natural resource management as it entails a rather complex institutional mechanism designed to facilitate the production, consumption and exchange of goods and services, given resource scarcity and technology ... rather than focusing on resource conservation.’ Discuss.

Question Two

Examine the main elements of the ecosystem approach in natural resource management.

Question Three

Explain the following terms in natural resources and environmental management:

- (a) Value of natural resources (10 marks)
- (b) Natural resource allocation (5 marks)
- (c) Natural resource development (5 marks)

Question Four

Analyse the strengths and weaknesses of the following methods that are used to solicit willingness to pay for environmental assets:

- (a) The Hedonic price approach (10 marks)
- (b) The contingent valuation method (10 marks)

Question Five

‘Although the Malthusian Theory has failed to materialize some 300 or years after its pronouncement, it has however generally explained the relationship between population, resources and the environment.’ Discuss.

Question Six

Give a comparative critique of the methods that are used to appraise projects in the public and private domain.
