



# **MACHAKOS UNIVERSITY**

University Examinations for 2022/2023 Academic Year

**SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES**

**DEPARTMENT OF ENVIRONMENTAL SCIENCES**

**FOURTH YEAR SECOND SEMESTER EXAMINATION FOR**

**BACHELOR OF ENVIRONMENTAL SCIENCE**

**ENS 437: LAND DEGRADATION AND DESERTIFICATION**

**DATE: 14/12/2022**

**TIME: 8.30 – 10.30 A.M**

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**INSTRUCTIONS: Answer question ONE and TWO other questions**

**QUESTION ONE (COMPULSORY) (30 MARKS)**

- a) Highlight the key factors that influence land degradation in an area (10 marks)
- b) Discuss the consequences of desertification on water resources (10 marks)
- c) Highlight the key dimensions of land degradation in your County (10 marks)

**QUESTION TWO (20 MARKS)**

Discuss any five strategies you would institute to deal with land degradation in your County

**QUESTION THREE (20 MARKS)**

Using a suitable example, discuss the role of the United Nations in addressing land degradation and desertification

**QUESTION FOUR (20 MARKS)**

Discuss any four challenges that the Kenyan government faces in dealing with land degradation and desertification in the arid and semi-arid regions of the country

**QUESTION FIVE (20 MARKS)**

Discuss the need for and various ways of incorporating local communities when dealing with land degradation in an area