

CHUKA



UNIVERSITY

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**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE**

ENSC 230: LAND USE SYSTEMS AND CLASSIFICATION

STREAMS: BSC. (ENSC) Y2S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 24/3/2021

2.30 PM – 4.30 PM

INSTRUCTIONS:

- Answer ALL questions in Section A and ANY TWO in section B.
- DO NOT WRITE ANYTHING on the question paper.

SECTION A: (30 MARKS)

- Q1. Explain the concept of ‘Land’ adopted by the United Nations according to FAO (1995). [6 Marks]
- Q2. Explain the difference between:
a) Land use and land cover. [3 Marks]
b) Land use planning and land use change. [3 Marks]
- Q3. Describe the factors that different land owners must take into consideration before settling on a particular type of land use of a co-owned piece of land. [6 Marks]
- Q4. Examine the functions of land that a land owner considers during it’s evaluation. [6 Marks]
- Q5. State and explain any five challenges that face land use planners in the process of establishing and implementing land use zones in Kenya. [6 Marks]

SECTION B: (40 MARKS)

Q6. With respect to the Constitution of Kenya 2010 (2020), examine any five characteristics of land as an environmental resource, giving reasons in each case why it must be managed as a basis for sustainable development. [20 Marks]

Q.7. Discuss any four land use practices that result in forest ecosystem degradation in Kenya and give suggestions, in each case, how the associated environmental damages can be mitigated. [20 Marks]

Q8. Discuss any five components of each of the classification system developed by the Economic Commission for Europe for land zonation globally. [20 Marks]

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