



W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS 2018/2019**

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN LAND RESOURCE PLANNING AND MANAGEMENT**

ALP 2410: LAND USE MODELLING II

DATE: APRIL 2019

TIME: 2 HOURS

INSTRUCTIONS:

Illustrate your answers using suitable examples and diagrams

SECTION A: Answer ALL Questions (30 Marks)

1. Write short notes on the following

- a) Common features of land use systems (10 marks)
- b) Uses and objectives of land use models (10 marks)
- c) Common limitations in land use modeling (10 marks)

SECTION B: Answer ANY TWO Questions (40 Marks)

- 2. Land use systems vary in terms of key processes, characteristic scales and other important system features. Citing examples discuss the major types of land use systems (20 marks)
- 3. Citing examples discuss ten (10) problems related to land use systems (20 marks)
- 4. Different land use systems are modeled with different model types. Discuss the three basic model types and their application in modeling land use systems (20 marks)