

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 451: MANAGEMENT OF ARID AND SEMI ARID LANDS

STREAMS: ENSC Y4S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 23/03/2021

8.30 A.M – 10.30 A.M

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)

1. Briefly discuss the importance of agroforestry and conservation tillage in arid and semi arid lands development initiatives. [6 marks]
2. Explain how pastoralists contribute to degradation of arid and semi arid lands. [6 marks]
3. (a) Highlight key characteristics that make ASALS fragile ecosystems. [3 marks]
(b) Briefly state problems associated with irrigation in ASALS. [3 marks]
4. Highlight three categories of arid and semi arid land's zones. [6 marks]
5. Highlight causes of aridity in ASALs in Kenya. [6 marks]

SECTION B (40 MARKS)

6. As a consultant for arid and semi arid lands (ASALs), you are required to advise the Government of Kenya on plausible strategies to improve the economic potential of ASALs. Using suitable examples. Discuss these strategies. [20 marks]

7. Using relevant examples, discuss the key characteristics of arid and semi arid lands. [20 marks]
8. Discuss coping strategies employed by local people and the government of Kenya to cushion people from extreme poverty in ASALs. [20 marks]
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