



KENYATTA UNIVERSITY
EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE (ANIMAL HEALTH AND PRODUCTION)
KAS 307: RANGELAND RESOURCES MANAGEMENT

2ND SEMESTER 2020/2021

TIME: 2 HOURS

INSTRUCTIONS: Answer ALL Questions (40 marks)

1. With examples, classify range plants according to how they respond to grazing pressure. (5 marks)
2. State the benefits of dryland improvement East African rangelands. (5 marks)
3. Explain the importance of vegetational changes that take place in rangelands. (5 marks)
4. Define the term “*ecological site*” and explain how ecological site descriptions are used. (5 marks)
5. Define the term ‘Landscape mosaic burning’ and discuss its effects. (5 marks)
6. Discuss factors that affect rangelands productivity. (5 marks)
7. State factors that facilitate bush invasion and spread in East African rangelands. (5 marks)
8. Explain briefly the factors that determine the rate of rangeland improvement in a dryland ecosystem. (5 marks)

SECTION B: ANSWER ANY OTHER TWO QUESTIONS

9. (a) Plant mechanisms to cope with grazing vary greatly between plant species.
Discuss this statement. (8 marks)
- (b) With help of illustrations, discuss the methods used in assessment of vegetation composition in a rangeland. (7 marks)
10. Explain how pastoralists and crop farmers deal with the normal stage and alert state in the drought cycle. (15 marks)
11. (a) Discuss the states in ranch and water development from open grazing systems to paddock systems. (10 marks)
- (b) Discuss the threats to wildlife management in rangelands. (5 marks)