



KENYATTA UNIVERSITY
SUPPLEMENTARY/SPECIAL EXAMINATION 2020/2021
EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE (ANIMAL
HEALTH AND PRODUCTION)

KAS 307: RANGELAND RESOURCES MANAGEMENT

OCTOBER, 2021

TIME: 2 HOURS

INSTRUCTIONS:

Answer ALL questions SECTION A and any other TWO questions in SECTION B

SECTION A: Answer All questions

1. Briefly explain the importance of prescribed fire in management of rangelands. (5 marks)
2. State any **TEN (10)** factors that affect stocking rate. (5 marks)
3. Briefly discuss the ecological demands of rangelands. (5 marks)
4. State the main duties of a modern-day range manager in Kenya. (5 marks)
5. Briefly explain how land managers and land users monitor rangelands to access if desired changes are occurring. (5 marks)
6. State the factors that facilitate the inversion and spread of bush in East African Rangelands. (5 marks)
7. Differentiate between the criteria most commonly used to assess range condition and trend. (5 marks)
8. Briefly explain how understocking may result in a deterioration of grazing resources. (5 marks)

SECTION B: Answer any other TWO questions (30 marks)

9. Discuss how pastoralists and crop farmers deal with the alert stage in the drought cycle. (15 marks)
10. Discuss the indicators of a downward trend in range condition and an upward trend in range condition in their correct progressive order. (15 marks)
11. Discuss any **five (5)** basic type of grazing systems and state their benefits where applicable (15 marks)