



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
SECOND YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE (ANIMAL HEALTH
AND PRODUCTION)**

**COURSE CODE: AHP 2110-1
COURSE TITLE: PRINCIPLES OF RANGE
MANAGEMENT**

DATE: 6TH DECEMBER 2022

TIME: 1430-1730

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **THREE** in section **B**.

This paper consists of 2 printed pages. Please turn over

SECTION A: Answer all questions (20 marks)

1. Define the following terms and concepts as used in Range Management
 - a) Rangeland **(2 marks)**
 - b) Range Condition **(2 marks)**
 - c) Stocking Rate **(2 marks)**
 - d) Rangeland Evaluation **(2 marks)**
2. State five (4) characteristics of a rangeland **(2 marks)**
3. The government of Kenya is considering rehabilitating a degraded rangeland in Samburu County. As a rangeland expert, your opinion is sought on the requirement that must be considered for successful seeding of the rangeland. Discuss five (5) requirements for successful rangeland seeding. **(10 marks)**

SECTION B: Answer any three questions (30 marks)

4. a) Describe three (3) principles of Sustainable Range Ecosystem Management **(6 marks)**
b) Briefly explain the use of fire as a rangeland management tool **(4 marks)**
5. Discuss five (5) major threats facing rangelands in Kenya **(10 marks)**
6. a) Explain four (4) reasons for rangeland monitoring **(4 marks)**
b) Describe the classification of range plants based on the basis of response to grazing **(6 marks)**
7. a) Highlight three (3) importance of rangelands **(6 marks)**
b) Explain four (4) major living components of grazing ecology **(4 marks)**

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