



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2021/2021 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER**

**SCHOOL OF NATURAL RESOURCES,  
TOURISM AND HOSPITALITY  
CERTIFICATE IN TOURISM AND WILD  
LIFE MANAGEMENT**

**COURSE CODE: CTW 009**

**COURSE TITLE: RANGE ECOLOGY  
MANAGEMENT**

**DATE: APRIL, 2022**

**TIME:**

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**INSTRUCTIONS TO CANDIDATES**

Answer question **ONE** and **ANY OTHER TWO**

*This paper consists of 2 printed pages. Please turn over.*

**SECTION A: Answer all questions (25 Marks)**

1. Giving examples, define the following terms **(8 marks)**
- |                      |                     |
|----------------------|---------------------|
| i. Rangeland         | v. Desertification  |
| ii. Grass            | vi. Rehabilitation  |
| iii. Shrub           | vii. Climate change |
| iv. Invasive species | viii. Degradation   |
2. With examples, highlight how fires can and have impacted rangelands **(4 marks)**
3. Briefly explain the ways one can quickly assess rangeland health **(4 marks)**
4. With examples in Kenya, why are rangelands important to our economy? **(5 marks)**
5. Highlight with examples, how insects are important in range ecology. **(4 marks)**

**SECTION B: Answer any three questions (45 Marks)**

6. Rangelands face a lot of challenges.
- a. With examples in East Africa, explain the challenges affecting rangelands **(10 marks)**
- b. Give solutions to these challenges **(5 marks)**
7. Herbivores have the ability to impact rangelands positively and negatively. Explain this in details. **(15 marks)**
8. Rangelands are found all across the world. With examples, explain the characteristics and locations of these rangelands. **(15 marks)**
9. You have been appointed manager of Suswa Conservancy. With examples, illustrate how you would improve the degraded rangeland. **(15 marks)**
10. With examples, classify invasive species, their impacts and how you would manage them in our Kenyan rangelands. **(15 marks).**

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