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University Examinations 2024/2025

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELLOR OF
SCIENCE IN ANIMAL HEALTH AND PRODUCTION

AAP 3202: PRINCIPLES OF RANGE MANAGEMENT SCIENCE

DATE: DECEMBER 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer question **ONE** and any other **TWO** questions

QUESTION ONE (30 MARKS)

- a) How are ecological site descriptions are developed (5 marks)
- b) List the effects of overgrazing vis a viz light to moderate grazing on the range forage (5 marks)
- c) Define the term rangeland evaluation and state its importance (6 marks)
- d) Explain avoidance as a form of grazing resistance. (4 marks)
- e) Highlight the underlying principles of range management. (5 marks)
- f) Describe the Savannah type of rangeland (5 marks)

QUESTION TWO (20 MARKS)

- a) Describe the effects of rainfall on rangeland primary productivity. (10 marks)
- b) Discuss the special adaptations used by semi -arid plants to survive or overcome moisture stress (10 marks)

QUESTION THREE (20MARKS)

- a) Describe the physical factors that cause plant stress (10 marks)
- b) Describe the effects of rainfall on rangeland forafespecies (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss how the degree of forage utilization can be influenced by the stocking rate and the relevant management practices that can be used to influence this (10 marks)
- b) Discuss grazing habits and preferences for various rangelands animals. (10 marks)