

# UNIVERSITY OF FORT HARE

**AGP 222**

## Supplementary Examinations

January 2019

**Time** : 3 Hours

**Subject** : Veld and Cultivated Pasture Management

**Marks** : 100

This paper consists of 3 printed pages including the cover page

Internal Examiners

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Moderator

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### Instructions

1. ANSWER ALL QUESTIONS
2. It is in your best interest to write clearly and legibly.

## SECTION A: VELD MANAGEMENT

### Question 1 (20 marks)

- (a) Veld condition is the condition of the veld in relation to some functional characteristics. State the two most important functional characteristics of vegetation for livestock production as well as their indicators. (4)
- (b) Describe adaptive strategies of Increaser I, Decreaser and Increaser II grass species to grazing (6)
- (c) Name one Decreaser species, and Increaser II grass species that are commonly found in the False Thornveld of the Eastern Cape (2)
- (d) Briefly describe the **physiological approach** as principle of utilization for rangeland management (4)
- b) Under what condition can fire be used for managing rangelands (4)

### Question 2 (20 marks)

- (a) State two main objectives of veld management (2)
- (b) Compare and contrast **seven** main characteristics of the sweetveld and sourveld (14)
- (c) Briefly describe **two** ways by which species selective grazing can be controlled (4)

### Question 3 (20 marks) Answer EITHER 3(a) OR 3(b).

- (a) Livestock production for economic development is a major challenge in communal grazing areas of southern Africa. Discuss the challenges associated with communal grazing areas of South Africa under the following sub-headings
- Veld Management practices (5)
  - Breeding programmes (5)
  - Veterinary services (5)
  - Communal resource maintenance and security (5)
- (b) The management of veld condition for livestock production encompasses three components namely; veld management **practices, systems and layouts**. Write brief notes on these components and how they relate to one another in veld management.

## **SECTION B: CULTIVATED PASTURES**

### **Question 4 (20 marks)**

Write short notes on:

- (a) Irrigation scheduling methods [12 MARKS]
- (b) Mechanical seed scarification [8 MARKS]

### **Question 5 (20marks)**

Explain the establishment and management of an agroforestry nursery