

UNIVERSITY OF FORT HARE

AGP 421

Degree Examinations

NOVEMBER 2017

Time : 3 Hours

Subject: Veld Rehabilitation

Marks : 100

This paper consists of 2 printed pages including the cover page

Internal Examiners

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INSRTUCTIONS

ANSWER QUESTIONS 1 (COMPULSORY) AND ONY OTHER 3 QUESTIONS
(From question 2 to 5)

AGP 421: Veld Rehabilitation (November 2017)

Answer question 1 (Tis question is Compulsory)

Question 1 (25 marks)

- a) Define veld rehabilitation and state its main objective (4)
- b) The implementation of a veld rehabilitation programme is primarily influenced by ECONOMICS. Briefly explain (4)
- c) State the objective of re-seeding of veld and briefly discuss the importance of using native species and appropriate micro water-harvesting techniques that have low input-cost (7)
- d) Briefly discuss the importance of insect pest control in veld rehabilitation, illustrating with appropriate examples of insect pests in South Africa (6)
- e) Describe any two changes that have occurred in the vegetation of South Africa as well as areas where these changes occurred. (4)

Question 2 (25 marks)

Describe and discuss the following aspects of soil erosion in South Africa:

- the extent of the problem
- the cause (s) of the problem
- the control of the problem

Question 3 (25 marks)

Outline the causes of encroachment by undesirable plants in South Africa, and briefly describe methods for controlling the encroachment.

Question 4 (25 marks)

Write a brief essay to describe and discuss how veld management practices such as stocking rate, rotational grazing and veld resting are pertinent to veld rehabilitation.

Question 5 (25 marks)

Based on the results of the veld condition assessment that you conducted on the long-term fire experiment at the University of Fort Hare research farm, indicate and explain whether fire can successfully be used to control bush and karroo encroachment in the False Thornveld of the Eastern Cape.