

The National University of Lesotho
Faculty of Agriculture examinations
Crop Science Department
CPS3506-12 Field Crop Production

Marks: 100

January 2024

Time: 3 hours

Instructions: Question 1 is Compulsory and Answer any three Questions

Question 1

- a) Explain in detail factors to be considered when designing a crop rotation plan [9]
- b) Is organic farming a sustainable farming system given the context of Lesotho [7]
- c) As an extension personnel your farmers complain about failure of their potato seed tubers to germinate/sprout, explain the probable reasons and how to overcome these problems [9]

Question 2

As a Professor of Crop Production explain to your students how to produce your crop of choice based on the following topics:

- a) Adaptations [7]
- b) Common pests and disease control [6]
- c) Harvesting [5]
- d) Post-harvest handling of the crop [7]

Question 3

Climate change has affected crop production and productivity. Discuss the significance of solar radiation on crop production and its application in Agriculture. [25]

Question 4

Discuss in detail the importance of irrigation and drainage in field crop production [25]

Question 5

Explain the effect of high temperature on field crop production in Lesotho, your explanation should include the points illustrated below [25]

