

THE NATIONAL UNIVERISTY OF LESOTHO

B.Sc. (Crop Science Exam)
CPS 2510 – Climate Smart Agriculture

Date: June 2023

Total Mark: 100

Time allowed: 3 hours

Instructions:

Answer question one, and any other 2 questions.

Question One

Explain the following terms as they are applied in climate smart agriculture:

1. Green House effect
2. Nutrition security
3. Ozone layer
4. Green house emissions
5. Carbon sequestration
6. Crop rotation
7. Global warming
8. stratosphere
9. Agroforestry
10. Climate smart Agriculture

(40 marks)

Question two

List and discuss three pillars of Climate Smart Agriculture explicitly describing the differences amongst them

(30 marks)

Question three

Discuss 6 ways in which carbon dioxide emissions can be reduced through animal production practices.

(30 marks)

Question four

- a) Name the five green-house gases (5 marks)
- b) Discuss how greenhouse effect occur and how the earth's atmosphere temperatures are affected

(25 marks)