NATIONAL UNIVERSITY OF LESOTHO B.Sc. (AGRIC) EXAMINATION

CPS 2507: INTRODUCTION TO PLANT PATHOLOGY

MAY 2023 TOTAL MARKS: 100 TIMES: 3 HOURS

INSTRUCTIONS: ANSWER ANY FIVE QUESTIONS

Question 1: (20 marks)

Discuss pathogenesis and the conditions suitable for disease development.

Question 2: (20 Marks)

Describe bacterial cytology, including the types of flagellation in your answer.

Question 3: (20 Marks)

Describe plant disease diagnosis under:

- a) Observation of disease symptoms patterns and the population level patterns
 observed with disease symptoms caused by biotic factors. [10]
- b) The Koch's postulates [5]
- c) Collection of background information for diagnosis of diseases. [5]

Question 4: (20 Marks)

Discuss the characteristics of fungi and two important diseases caused by them.

Question 5: (20 Marks)

Describe the morphology and chemical composition of viruses.

Question 6: (20 Marks)

Differentiate between the following concepts / terms: [5 Marks Each]

- Classification of plant diseases based on type of symptoms and based on type of organ affected
- ii) Primary inoculum and secondary inoculum
- iii) Vertical resistance and horizontal resistance
- iv) Fugal passive dispersal and active dispersal