

UNIVERSITY OF ESWATINI



SEMESTER 1 MAIN EXAMINATION PAPER, DECEMBER 2019

B. Sc., B.Ed.

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

COURSE CODE: GEP315

PAPER TITLE: Agricultural Systems

TIME ALLOWED: Three (3) Hours

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- INSTRUCTIONS:**
1. This paper consists of Section (A) and (B)
 2. Answer **FOUR** questions
 3. Answer any **TWO** questions from **EACH** Section
 4. Illustrate your answers with examples and clearly drawn diagrams where appropriate

ALLOCATION OF MARKS: Each question carries 25 Marks
: Total marks for the paper is 100

Candidates may complete the front cover of their answer book when instructed by the Chief Invigilator and sign their examination attendance card but must NOT write anything else until the start of the examination period is announced.

No electronic devices capable of storing and retrieving text, including dictionaries and any form of foreign material may be used while in the examination room

DO NOT Turn examination paper over until instructed to do so

GEP315: AGRICULTURAL SYSTEMS – DECEMBER 2019

SECTION A: ANSWER ANY TWO QUESTIONS

QUESTION 1

Discuss the advantages and disadvantages of using herbicides to remove weeds in crop farming.
(25 Marks)

QUESTION 2

Explain how a farmer modifies variables influencing plant growth and development.
(25 Marks)

QUESTION 3

Discuss the effects of changing technology on von Thunen's Model.
(25 Marks)

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 4

Discuss the importance of organic matter in soil management.
(25 Marks)

QUESTION 5

Discuss the impacts of climate change on food security.
(25 Marks)

QUESTION 6

'The nature and location of agricultural production is greatly influenced by climatic factors'.
Discuss the validity of the statement.
(25 Marks)