

UNIVERSITY OF ESWATINI
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING
FINAL EXAMINATION, DECEMBER 2018
B. Sc., B.Ed

TITLE OF PAPER: AGRICULTURAL SYSTEMS

COURSE NUMBER: GEP315

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS:

1. ANSWER FOUR QUESTIONS
2. CHOOSE TWO FROM EACH SECTION
3. ILLUSTRATE YOUR ANSWERS WITH
EXAMPLES AND CLEARLY DRAWN DIAGRAMS
WHERE APPROPRIATE

ALLOCATION OF MARKS: EACH QUESTION CARRIES 25 MARKS

: TOTAL MARKS FOR THE PAPER 100

THIS QUESTION PAPER SHOULD NOT BE OPENED UNTIL PERMISSION IS
GRANTED BY THE INVIGILATOR

GEP315: AGRICULTURAL SYSTEMS – DECEMBER 2018

SECTION A: ANSWER ANY TWO QUESTIONS

QUESTION 1

Using Eswatini as a case study, discuss the merits and demerits of the government's programme of subsidizing farming inputs.

(25 Marks)

QUESTION 2

Discuss the most permanent aspects of land use decision making that cannot be predicted with 100 per cent accuracy.

(25 Marks)

QUESTION 3

a) Outline the assumptions of Dunn's equilibrium model.

(5 marks)

b) Explain why in von Thunen's model, perishability and value of produce were important determinants of location.

(20 marks)

(25 Marks)

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 4

Discuss the effects of cultivating pineapples on soil properties.

(25 Marks)

QUESTION 5

Explain why slope is important in soil formation and management.

(25 Marks)

QUESTION 6

a) Explain how crop water needs varies with growth stage.

(10 marks)

b) Discuss the most effective agricultural climate change adaptation approaches applicable in developing countries.

(15 marks)

(25 Marks)