

UNIVERSITY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING
FINAL EXAMINATION, DECEMBER 2017
B. Sc., B.Ed

TITLE OF PAPER: AGRICULTURAL SYSTEMS

COURSE NUMBER: GEP315 / 326

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS:

- 1. ANSWER FOUR (4) QUESTIONS**
- 2. CHOOSE TWO (2) 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 2017

SECTION A: ANSWER ANY TWO (2) QUESTIONS.

QUESTION 1

With reference to countries in sub-Saharan Africa, compare and contrast the economic behaviour of commercial and subsistence farmers. **(25 Marks)**

QUESTION 2

Using examples, explain why it is not easy to test von Thunen's Theory in Africa. **(25 Marks)**

QUESTION 3

Explain the operational and structural attributes of types of agriculture. **(25 Marks)**

SECTION B: ANSWER ANY TWO (2) QUESTIONS

QUESTION 4

Using examples, explain how alkaline soil levels can be lowered. **(25 Marks)**

QUESTION 5

Discuss the factors that may limit crop development and reduce evapo-transpiration. **(25 Marks)**

QUESTION 6

- a) Using examples, explain how the loss of water through evaporation in a young orchard can be reduced. **(15 marks)**
- b) Explain how potential evapo-transpiration is estimated. **(10 marks)**
(25 Marks)