UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:　　　DIPLOMA IN AGRICULTURAL EDUCATION I
　　　　　　　　　　　DIPLOMA IN AGRICULTURE I
　　　　　　　　　　　DIPLOMA IN HOME ECONOMICS I
　　　　　　　　　　　DIPLOMA IN HOME ECONOMICS EDUCATION I
　　　　　　　　　　　REMEDIAL YEAR IN AGRICULTURE
　　　　　　　　　　　MASTER OF SCIENCE

COURSE CODE:　　AEM 102

TITLE OF PAPER:　INTRODUCTION TO COMPUTERS

TIME ALLOWED:　TWO (2) HOURS

INSTRUCTIONS:　　1.　ANSWER ALL QUESTIONS IN ALL SECTIONS.

　　　　　　　　　　　2.　ANSWER ALL QUESTIONS IN THE ANSWER
　　　　　　　　　　　　　BOOKLET PROVIDED

　　　　　　　　　　　3.　QUESTIONS CARRY MARKS AS INDICATED IN
　　　　　　　　　　　　　THIS PAPER.

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY
THE CHIEF INVIGILATOR**

1. Describe in full detail how MS-DOS formats a diskette and state why formatting is necessary.
[10 marks]

2. Describe the general usefulness of a spreadsheet program.   [10 marks]

3. Distinguish between ANALYSIS and SYNTHESIS in image processing and compare their difficulty.   [10 marks]

4. Describe what a computer virus is and list three ways of avoiding virus infection of your diskettes.   [10 marks]

5. Distinguish between a compiler and an interpreter and list one advantage of each compared with the other.   [10 marks]

6. Distinguish between internal and external MS-DOS commands and give three examples of each.   [10 marks]

7. For two real processes specify the sensor, the decisions needed, and the device(s) activated in process control.   [10 marks]

8. Define information system as defined in lecture.   [10 marks]

8. List the six steps in systems analysis/development, as presented in lecture, and describe each step briefly.   [20 marks]

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: DIPLOMA IN AGRICULTURAL EDUCATION YEAR I
DIPLOMA IN AGRICULTURE YEAR I
DIPLOMA IN HOME ECONOMICS YEAR I
DIPLOMA IN HOME ECONOMICS
EDUCATION YEAR I

REMEDIAL IN AGRICULTURAL EDUCATION
REMEDIAL IN AGRICULTURE
REMEDIAL IN HOME ECONOMICS
REMEDIAL IN HOME ECONOMICS EDUCATION

COURSE CODE: AEM 103

TITLE OF PAPER: PRINCIPLES OF ECONOMICS

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: 1.　　ANSWER QUESTION ONE AND CHOOSE ANY
OTHER TWO FROM THE REMAINING THREE
QUESTIONS.

　　　　　　　　2.　　QUESTION ONE CARRIES FORTY (40) MARKS
AND THE REMAINING QUESTIONS THIRTY
MARKS EACH.

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

Question 1

(a)   Suppose a farmer initially produces 40 bags of maize at an average total cost of E400.00 each. The farmer then increases production of maize to 42 bags. The production of the additional 2 bags reduces the average total cost to E390.00. What is the marginal cost of each of the additional bag of maize?   **8 MARKS**

(b)   Explain with the help of appropriate diagrams the effect that a fall in price of good X may have on the equilibrium price and quantity of good Y consumed.

10 MARKS

(c)   Explain what the price elasticity of demand refers to and provide the main determinants of price elasticity of demand.   **10 MARKS**

(d)   Give three reasons for a decrease in the supply of good Y.   **6 MARKS**

(e)   (i) A person's salary increases from E5000 a month to E7000 a month. As a result of this change in salary his consumption of good X decreases from 20 units per month to 15 units per month while the consumption of good Y increases from 15 units per month to 20 units per month. Give the appropriate comment.   **3 MARKS**

(ii) When price falls from E10.00 to E8.00 the quantity demanded of a given good rises from 20 to 25. Comment on the price elasticity of demand.   **3 MARKS**

Question 2

(a) Explain the main functions and characteristics of money   **12 MARKS**
(b) Distinguish between labour and the entrepreneur as economic resources of
    production.   **12 MARKS**
(c) Explain the difference between working and fixed capital   **6 MARKS**

Question 3

(a) Briefly explain how profit differs from the other payments to the factors of production.   **10 MARKS**
(b) With a simple example explain why marginal cost must equal marginal variable cost.   **10 MARKS**
(c) With help of well labeled diagrams explain the effects of floor and ceiling prices

10 MARKS

Question 4

(a) Explain with aid of diagrams the existence of supernormal profits and eventually normal profits in a perfectly competitive industry.   **12 MARKS**
(b) Explain the main characteristics of perfect competition and pure monopoly

18 MARKS