



SUPP. 2006/2007

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## UNIVERSITY OF SWAZILAND

## SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME:** B.SC. AG. ECON. & AGBMGT YEAR 1 (NEW PROG.)  
B.SC. AG. EDUC. & EXT. YEAR 1 (NEW PROG.)  
B.SC. ANI. SCI. YEAR 1 (NEW PROG.)  
B.SC. AGRON. YEAR 1 (NEW PROG.)  
B.SC. HORT. YEAR 1 (NEW PROG.)  
B.SC. LWM YEAR 1 (NEW PROG.)  
B.SC. HOME ECON YEAR 1 (NEW PROG.)  
B.SC. FSNT YEAR 1 (NEW PROG.)  
B.SC. TADM YEAR 1 (NEW PROG.)  
B.SC. HOME ECON ED. YEAR 1 (NEW PROG.)  
M.SC. IN AG. EDUC. & EXT. YEAR 1

**COURSE CODE:** AEM 103

**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. Discuss the advantages of using a microcomputer as a word-processor compared with using a manual typewriter. [20 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. What program that we have used in class is in control of the computer if the current prompt is a dot (.). Draw a mental picture of the internal memory in this case. [10 marks]
6. Draw the complete input/output model for computer process control, assuming input and output are analog. [10 marks]
7. Distinguish between a compiler and an interpreter and list one advantage of each compared with the other. [10 marks]
8. For two real processes specify the sensor, the decisions needed, and the device(s) activated in process control. [10 marks]
9. Define information system as defined in lecture. [10 marks]