



2ND SEM. 2008/2009

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UNIVERSITY OF SWAZILAND

FINAL 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 105

TITLE OF PAPER: INTRODUCTION TO COMPUTERS

TIME ALLOWED: TWO (2) HOURS

- INSTRUCTIONS:**
1. ANSWER ALL QUESTIONS IN ALL SECTIONS.
 2. ANSWER ALL QUESTIONS ON THE QUESTION PAPER. YOU DO NOT NEED AN EXAMINATION ANSWER FOLDER. SUBMIT THIS QUESTION PAPER. DO NOT REMOVE IT FROM THE EXAMINATION ROOM.
 3. QUESTIONS CARRY MARKS AS INDICATED IN THIS PAPER.

Candidate's Examination Number : _____.

Time of Examination : _____.

Date of Examination : _____.

Venue of Examination : _____.

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

1. In this course, symbols or facts that do not necessarily help us answer questions were referred to as:

- a. data.
- b. forms.
- c. icons.
- d. information.
- e. statistics.

2. Memory in which no information is stored when the power is off is referred to as:

- a. REM
- b. RAM
- c. ROM
- d. a. and b.
- e. a. and c.
- f. b. and c.
- g. a., b., and c.
- h. none of the above.

3. A set of programs that controls all of the functions of the computer and its auxilliary devices is referred to as a/an:

- a. word-processor.
- b. spreadsheet.
- c. operating system.
- d. function wizard.
- e. expert system.
- f. database management system.

4. If corrections to data need to be made in a database and the user has chosen to use indexing to allow viewing in different orders, the time needed to make corrections:

- a. will be more than if sorting had been used to allow viewing in different orders.
- b. will be less than if sorting had been used to allow viewing in different orders.
- c. will be more or less than if sorting had been used to allow viewing in different orders.
- d. will be the same as if sorting had been used to allow viewing in different orders.

5. Of the programs we used in class, the one that used A:> as the prompt was a/an:

- a. database management system.
- b. expert system.
- c. function wizard.
- d. operating system.
- e. spreadsheet.
- f. word-processor.

6. The operating system found in the RAM of the computers we used in this course during the second semester is:

- a. CPM.
- b. Small permanent operating system.
- c. UNIX.
- d. MSDOS.
- e. OS-2.
- f. Windows '95
- g. Windows '98
- h. Windows 2000

7. The operating system found in the ROM of the computers we used in the course is:

- a. PC DOS.
- b. OS-2.
- c. Windows'95.
- d. MS-DOS.
- e. small permanent operating system.

8. When compared to a manual typewriter, a microcomputer used as a word-processor:

- a. makes it harder to number pages.
- b. makes it easier to number pages.
- c. makes it easier to make corrections.
- d. a. and b.
- e. a. and c.
- f. b. and c.
- g. a., b., and c.
- h. none of the above.

9. An Expert-system:

- a. is modular.
- b. can be extended dynamically.
- c. allows knowledge to be gained from data.
- d. a. and b.
- e. a. and c.
- f. b. and c.
- g. a., b., and c.
- h. none of the above.

10. Which of the following is/are advantages of using a computer over manual management of databases:

- a. you lose a lot more than a card if you lose a database file/diskette.
- b. indexing/sorting.
- c. quick to access.
- d. a. and b.
- e. a. and c.
- f. b. and c.
- g. a., b., and c.
- h. none of the above.

11. To copy a file using Windows 2000 from "My Documents" folder to a diskette in drive A:, the following options is/are used in the Edit Menu:

- a. Cut
- b. Copy.
- c. Paste.
- d. a. and b.
- e. a. and c.
- f. b. and c.
- g. a., b., and c.
- h. none of the above.

12. An MSDOS command that is only loaded into internal memory when it is needed is referred to as:

- a. access on.
- b. access off.
- c. ephemeral.
- d. external.
- e. internal.

13. The location of a byte in the internal memory of the computer is referred to as a/an:

- a. access number.
- b. address.
- c. allele.
- d. locus.
- e. local.
- f. locality.
- g. memloc.
- h. none of the above.

14. Translators of computer languages that translate the program line by line are:

- a. compilers.
- b. interpreters.
- c. both compilers and translators.
- d. neither compilers nor translators.

15. A computer virus:

- a. is a form of computer crime.
- b. cannot affect other files.
- c. is capable of hiding itself.
- d. a. and b.
- e. a. and c.
- f. b. and c.
- g. a., b., and c.

16. Translators of computer languages that translate the program line by line are:

- a. compilers.
- b. interpreters.
- d. both compilers and translators.
- e. neither compilers nor translators.

17. The pattern of 0's and 1's in one memory location can represent:

- a. part of a memory address.
- b. a command to the microprocessor.
- c. a complete code of a complex program.
- e. a. and c.
- f. b. and c.
- g. a., b., and c.

18. Using a model to help choose which method to use to control a disease is an example of using simulation in the area of:

- a. Training/Teaching.
- b. Research.
- c. Exploring Alternatives/Planning.
- d. Predicting events.
- e. Games.

19. Which of the following types of computer languages is (are) machine independent?

- a. assembly language.
- b. high level language.
- c. machine code.
- d. a and b.
- e. a and c.
- f. b and c.
- g. a, b, and c.

20. The third step in writing a computer program is:
- Set out the steps needed.
 - State the problem clearly.
 - Debug the program.
 - Code the program.
 - Use the program.
 - none of the above.
21. A bar code on a product contains information on:
- manufacturer's city.
 - product's cost.
 - retail seller's country.
 - a. and b.
 - a. and c.
 - b. and c.
 - a., b., and c.
 - none of the above.
22. In sound processing analysis is more difficult than synthesis:
- because output can be standardized in analysis.
 - because there are more possible inputs in synthesis.
 - both a. and b.
 - neither a. nor b.
23. To copy the value of a formula, rather than the formula itself, to another cell in Microsoft Excel 2000, one could use a sub-option under the menu bar option(s):
- Tools.
 - Graphics.
 - Edit.
 - a. and b.
 - a. and c.
 - b. and c.
 - a., b., and c.
 - none of the above.
24. In the central processing unit, the part responsible for storing the present instruction is the:
- program counter.
 - instruction register.
 - control unit.
 - arithmetic and logic unit.
25. The elements of an information system include:
- procedures.
 - people.
 - machines.
 - a. and b.
 - a. and c.
 - b. and c.
 - a., b. and c.
 - none of the above.

SECTION II: MATCHING: In the blank next to each item on the left, place the letter of the one choice on the right that best fits that item. Read all choices before you start to answer. You may need to use some letters for more than one item, but do not use more than one letter for each item. Use capital letters, ambiguous letters will be counted wrong.

(2 marks each)

[20 marks total]

- | | |
|--|-----------------------|
| _____ 1. An acronym urging caution in checking input. | A. RAM |
| _____ 2. The keyboard functions in this process. | B. ROM |
| _____ 3. An external MS-DOS command that displays the contents of a file. | C. HARDWARE |
| _____ 4. To load the internal MS-DOS into the internal memory of the computer. | D. DISKCOPY |
| _____ 5. A group of eight binary digits. | E. GIGO |
| _____ 6. To pretend to do something. | F. SIMULATE |
| _____ 7. The type of memory into which MS-DOS is loaded. | G. OUTPUT |
| _____ 8. A single binary digit. | H. TYPE |
| | I. BOOT |
| | J. BIT |
| | K. BYTE |
| | L. OUTPUT |
| | M. INPUT |
| | N. None of the above. |

_____ 9. An internal MS-DOS command that copies files.

_____ 10. WordPerfect is an example of this.

SECTION III. Short Answer: Answer each question in the space provided.

1. List the general tasks of the operating system found in ROM.

[10 marks]

2. Draw the complete input/output model for computer process control, assuming input and output are analog.

[10 marks]

3. Describe briefly the features of an Expert-system, and the problems of developing one.

[10 marks]

FOR EXAMINERS' USE ONLY :

Section	Internal Examiner		External Examiner	
	Mark	Signature	Mark	Signature
I.				
II.A				
III.1				
III.2				
III.3				
TOTAL				