UNIVERSITY OF SWAZILAND

Faculty of Science

Department of Computer Science

MAIN EXAMINATION, MAY 2011

Title of paper: INTRODUCTION TO COMPUTING FOR SOCIAL SCIENCE

Course number: CSS100

Time allowed: 3 hours

Instructions: Answer all 4 questions.

This examination paper should not be opened until permission has been granted by the invigilator

Question 1 (Computer Hardware) - [25 marks]

- a) Distinguish between hardware and software. [2]
- b) Describe the workings of a computer with the help of the IPO scheme diagram. [5]
- c) List and briefly describe the 5 main kinds of computer hardware. For each kind, provide an example of a hardware device. [10]
- d) List and describe the main parts of the CPU.

[6]

e) Suppose that a hard disk drive has 60 GB of free space. Is it possible to copy a 500 MB file to this hard disk? Explain your answer. [2]

Question 2 (The Operating System) - [25 marks]

a)	Distinguish between each of the following pairs:			
	i. A minimized window and a closed window.			
	ii. Horizontal and vertical scrolling.			
	iii. Menu bar and tool bar.			
	iv. Window and icon.			
	v. Copying and moving a file.	[10]		
b)	Saving a file results in the transfer of data from one hardware device to another. What are			
	these 2 devices?	[2]		
c)	c) Describe the steps that need to be taken to accomplish the following on the desktop:			
	i. Reduce the height of a window.	[1]		
	ii. Delete a file.	[1]		
	iii. Rename a file.	[1]		
	iv. Highlight 2 icons at once.	[2]		
	v. Create a text document.	[2]		
d)	Describe the steps that need to be taken to accomplish the following using Windows Explorer or My Computer window:			
	i. Navigate up one level from the current folder.	[1]		
	ii. View the modification date of all files in the current folder.	[2]		
	iii. Copy a file from one folder to another.	[3]		
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Question 3 (Word Processing) - [25 marks]

a)	With the help of diagrams contrast between any 3 kinds of paragraph alignment.	[6]			
b)	Briefly explain the meanings of font type, font size and font style.	[3]			
c)	Describe the steps that need to be taken to accomplish the following using Microsoft Word:				
	i. Make a word both italic and bold.	[2]			
	ii. Set the font of the title to Arial and increase the size to 18 pt.	[2]			
	iii. Indent a paragraph by 2 inches.	[2]			
	iv. Identify a misspelled word and obtain suggestions for correcting it.	[2]			
	v. Create a table with 2 rows and 3 columns.	[2]			
	vi. Add page numbers to the bottom-right corner of each page.	[3]			
	vii. Save the document in the F: drive, giving it a new name, ESSAY.	[3]			

Ouestion 4 (Spreadsheets) - [25 marks]

Answer the questions further below with reference to the following spreadsheet. It shows the marks gained by 8 students in 2 tests.

	A	2 2	- 0	D
1	Student	Test 1	Test 2	
2	610100	21	60	
3	601011	45	48	
4	602000	74	60	
5	611000	55	60	
6	600020	63	72	
7	601000	50	30	
8	611020	53	41	
9	600100	5 5	48	
10				

a) At what address is the cell pointer located in this spreadsheet? [1] b) What is the meaning of logical test? [1] c) Write down dynamic formulas to accomplish the following: i. Show the total marks of student number 610100 at D2. [2] ii. Show the average Test 1 mark at B10. [3] iii. Show the highest Test 2 mark at C10. [3] iv. Show the word POOR at E2, provided student number 610100's total is less than 80 marks. Otherwise, leave E2 blank. [6] d) Describe the steps that need to be taken in order to change the above spreadsheet as follows: i. Change the height of the first row to 20 units. [2]

ii. Insert a bar chart showing all marks in Test 1.

iii. Sort the entire table in ascending order of student number.

[3]

[4]