UNIVERSITY OF SWAZILAND

Faculty of Science

Department of Computer Science

MAIN EXAMINATION, MAY 2010

Title of paper: INTRODUCTION TO COMPUTING FOR SOCIAL SCIENCE

Course number: CSS100

Time allowed: 3 hours

Instructions: Answer all 4 questions.

Question 1 (Computer Hardware) – [25 marks]

a)	i.	Distinguish between data and information.	[2]
	ii.	Explain how the computer works in terms of the IPO (input, processing and our scheme.	tput) [4]
b)	Lis	et and briefly describe any 2 input and 2 output devices.	[4]
c)	i.	Inside what part of the computer would you expect to find the CPU (Central Processing Unit)? Why is it hidden?	[2]
	ü.	The CPU itself consists of 3 main parts. Write their full names and describe their purpose.	[6]
d)		AM and ROM are 2 examples of storage devices. Write their full names and explae main difference between them.	in [4]
e)	W	hich of the following quantities of information is greater? Explain your answer for 4000 kilobytes 2 gigabytes	ally. [3]

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

a)) Contrast the meanings of the following pairs of terms: i. Files & folders						
	ii. Menu bar & tool bar						
	iii. Pointing the mouse & dragging the mouse						
	iv. Active window & inactive windows	[8]					
b)	How would you resize the taskbar?	[1]					
c)	Assume that 3 files named a , b and x are located on the desktop. Describe the steps that need to be taken in order to carry out the following: i. Delete a						
	ii. Change the name of b to c						
	iii. Create a new folder named d on the desktop						
	iv. Move x into the new folder d						
d)	Supposing that My Computer window is displaying the contents of a large folder (hundreds of files), how would you <i>quickly</i> highlight only files created in the year 2008?						
e)	Describe how the search box may be used to find all files in the F : drive whose name start with the letter j						
. f)	Describe the steps you would take to make a new scrap document named notes to appear on the desktop.	o [3]					

Question 3 (Word Processing) - [25 marks]

a)	Define the following terms: i. Font style				
	ii. Line spacing				
	iii. Right-aligned paragraph	[3]			
b)	How are spelling mistakes highlighted by the word processor? How might some suggested corrections to spelling mistakes be obtained?	[2]			
c)	Assume that a single-page document consists of a heading at the top line followed by three paragraphs. Describe the steps that need to be taken in order to carry out the following:				
	i. Centre-align the heading and increase its font size to 18.	[2]			
	ii. Fully justify the first paragraph.	[2]			
	iii. Indent the second paragraph by 1 inch.	[2]			
	iv. Double-space the third paragraph.	[2]			
	v. Make a table of 3 rows and 2 columns to appear in the space between the second and third paragraphs. Within the table, make the first column narrower than the second.				
	vi. Add a second page containing the same text as the first page.	[4]			
	vii. Show page numbers at the top-right corner of each page.	[3]			

Question 4 (Spreadsheets) - [25 marks]

Answer the questions further below with reference to the following spreadsheet. It shows the population of Swaziland (in thousands) broken down by age group and gender. For example, it shows that there were 61,000 men aged between 20 and 24.

				E E
	Age group	Male	Female	
2	0-4	68	68	
3	5-9	69	69	
4	10-14	75	74	
5	15-19	74	74	
	20-24	61	62	n a territoria del principio del colore del como como del consecuente del cons
7	25-29	37	40	Anna Antonio (Anglika alam 11. mamma anna angan Antonio Angan angan Angan Angan Angan Angan Angan Angan Angan
8	30-34	22	26	
9	35-39	16	22	
10		Mark and the state of the state	, , , , , , , , , , , , , , , , , , ,	THE PARTY OF THE P

- a) At what address is the cell pointer located in this spreadsheet? [1]
- b) Write down a *dynamic formula* that might be typed into cell B10, such that the total male population below age 30 (i.e. aged from 0 to 29) is shown. [4]
- c) Write down a *dynamic formula* that might be typed into cell C10, such that size of the largest female age group is shown. (Note that, given the data above, the result would be 74.)
- d) Describe the steps that need to be taken in order to make the following changes to the above spreadsheet (take care to state the addresses of cells mentioned in your answer):i. Italicize all the age-group names (from 0-4 down to 35-39).

ii. Change the text colour of the column headings to blue.

- iii. Insert a new blank row above the first row. [2]
- iv. Sort the entire table in ascending order of female population group size. [5]
- v. Insert a pie chart showing male and female population in the 35-39 age group. [4]

[3]