EASTERN UNIVERSITY, SRI LANKA

EXTERNAL DEGREE

FIRST EXAMINATION IN SCIENCE 1998/1999

TERM SYSTEM, 2004/2005

JUNE, 2008

EXTCC 103 - COMPUTER LITERACY

Answer four questions only (1) a) Who is known as the first Engineer in the world? b) Briefly explain about fifth c) Briefly compare the capa					•	Time: 2 Hrs.	
(1)	a)	Who is known as the first Computer Programmer or Software					
		Engine	eer in the world?				
						(10)	
	b)	Briefly	explain about fi	fth Generation	Computers.		
	•					(20	
	c)	Briefly	y compare the ca	pabilities of a	Computer with	Human.	
						(30	
	d)	Briefl	y explain the use	of Artificial I	ntelligence and	Expert systems	
		in dea	ns.				
						(40	
(2)	a)	Define the following terms.					
		(i)	Bit	(ii)	ASCII		
		(iii)	WORD	(iv)	Information.		
					rates world	(2	
	b)	Convert the following numbers into binary equivalent.					
		(1)	127 ₁₀	(ii)	7F ₁₆		
	*	(iii)	768	(iv)	AB ₁₆ .		
e 3			76176			(2	
	c)	Compare and Contrast the following.					
		(i) Hardware and Software					
		(ii)	RAM and RO	M			
		(iii) Highlevel and Lowlevel languages.					

(30)

13 DEC

Eastern University.

d)	Write short notes on the following:						
	/ (I) Internal memory						
	(ii) Translators						
	(iii) Multimedia PC.						
	YDAKSTRI SETTEMBE FOR TOLYS	(30)					
a)	Define the term "Source data automation".						
		(10)					
b)	Explain the use of following input devices.						
	(i) OMR (ii) Scanner						
	(iii) Mouse (iv) Bar code reader.						
		(40)					
c)	What are the factors to be considered when selecting an output						
	device (Printer) ?						
		(20)					
d)	Explain the use of following storage devices.						
	(i) Winchester disk						
	(ii) Compact disk (CD - ROM)						
	(iii) WORM .						
		(30)					
a)	What is meant by System files?						
	notamado) (ri) tolormation	(20)					
b)	How can system files be copied from Hard disk to floppy disk?						
		(20)					
c)	Briefly write down about the following in relation to MS-DOS.						
	(i) Internal and External commands						
	(ii) Files and Directories						
	(iii) Format and Path commands.						
	(10 * 1	3 = 30					
d)	State the advantages of Windows-95 over MS-DOS.						
		(30)					

- (5) a) What is an Electronic Spreadsheet ?
- Ontversity, Sri
- b) What kind of applications or problems can be done using Spreadsheet?

(20)

c) Name two Electronic Spreadsheet packages available today.

(10)

d) Define the term "Word Processing".

(10)

e) What are the facilities available in word processing packages?

(20)

f) Give name of two word processing packages.

(10)

g) State the advantages and disadvantages of a computerized record keeping system (Database) over a manual filing system.

(20)

(6) a) State the use of flow charts when writing Computer programs.

(20)

b) Draw a flow chart to the following problem. Find out the roots of a quadratic equation $ax^2 + bx + c = 0$. The roots can be obtained using the following equation.

$$x = -b \pm (b^2 - 4ac)^{1/2}.$$

If the value of (b² - 4ac) is greater than or equal to zero, the roots should be displayed. If the value of (b² - 4ac) is less than zero, it should print that the "Roots are imaginary".

(40)

c) Convert the flow chart into a QBASIC program.

(40)