University of Kelaniya - Sri Lanka
Centre for Distance and Continuing Education
Bachelor of Arts (General) Degree First Examination(External) - 2014
August/September/October 2018
Faculty of Science
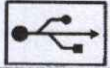##### Computer Literacy - COMP – E 1014
Paper II

Number of Questions : 06	**Number of Pages - 05**	**Time : 02 Hour**

Answer five (05) questions including question one.

(01) Write short answers

(i) Explain what is full duplex information communication is

Give two examples

(ii) Computers can be categorized into two main parts according to the task it performs. Name those two parts, and give two examples for each.

(iii) Name two advantages of removable storage.

(iv) Present the calculations needed to convert the hexadecimal number BA_{16} into an octal numbers.

(v)   What is this symbol?

What devices can be connected to this?

(vi) Name three actions that can be taken to avoid eyestrain which occurs as a result of staying near the computer for a long time.

(vii) Mention how to save a document from MS Word as a web page.

(viii) Present the logic circuit and the truth table suitable for the Boolean expression : $X=(A+B)^{l}+(B.A^{l})$

(ix) Online shopping is buying goods or services through internet write two advantages of online shopping

(x) Each item in table (A) can be matched with a item in table (B). Write down the lables of the matching pair on your answer sheet

Table (A)	Table (B)
1. Infared	(P) Unguided media suitable for transmitting data over long distance
2. Microwaves	(Q) Use Copper wires to transmit data
3. Optical Fiber	(R) Used in wireless remote controllers, wireless keyboard and wireless mouse
4. Twisted Pair	(S) Use light signals in glass tube to transmit data

(02) The following shows a worksheet of the income and expenses made on the inter house sports meet of Dharmashoka college.

H9   ▼ f_x

	A	B	C	D	E	F
1			Sport Meet Income and Expenditure			
2		Income			Expenditure	
3	Date	Description	Amount	Date	Description	Amount
4	1/2/2016	Gemunu House	55000.00	1/20/2016	For food	50000.00
5	1/2/2016	Thissa House	45000.00	1/21/2016	Drinks	50000.00
6	1/4/2016	Vijaya House	52000.00	1/23/2016	Medels & Cups	20000.00
7	1/6/2016	Parakkrama House	48000.00	1/26/2016	Certificates	15000.00
8	1/7/2016	Well wissers	100000.00	1/27/2016	Transport	10000.00
9	1/8/2016	Students from abroad	290000.00	1/28/2016	Main stage	15000.00
10				1/31/2016	Balance B/F	430000.00
11		Total	590000.00			590000.00
12	Old student living in abroad		$ 2,000.00			
13	Doller exchange rate		145			

(i) What should be the function formula in cell C9 to convert the amount in cell C12 from dollars to rupees? The Dollar exchange rate of rupees is mentioned in cell C13.

(ii) What is the formula that should be in C11 to calculate the total income?

(iii) Total income in cell C11 should be equal cell F11, What is the equation for that

(iv) Total expenditure and balance B/F should be equal top the value in Cell F11. Mention the   that should be entered in F10 to calculate the balance.

(v) Column heading F and Row heading 11 is highlighted. What is the reason for that?

(vi) The amount given by Thissa house is not 45000 but 50000. When it is corrected in cell C5, mention the other cells which change according to that.

(vii) The sports committee is in need of presenting the expenditure for various tasks in a graphical form.

(a) Name two types of graphs suitable for this

(b) Mention the cell range used in drawing the above graph.

(03) A stock merchant maintains a table for the items and suppliers. A supplier can supply many items and an items can be supplied by many suppliers. He maintains a database table and a part of it is as below.

Item Code	Item	Supplier ID	Date-Supplied	Supplier
MS286	Mouse	S1	01/02/2014	Ruwan
KB163	Keyboard	S1	01/02/2014	Ruwan
CD967	CD ROM	S2	12/07/2014	Gamini
CD967	CD ROM	S3	25/10/2013	Mohamad
UP398	UPS`	S4	12/04/2014	Steven
HD193	Harddisk	S5	09/09/2013	Perera
UP398	UPS	S6	09/09/2013	Bernad
RM424	RAM	S2	12/07/2014	Gamini

(i)   Mention the number of fields and the number of records of this table.

(ii)   Write an example for a field of this table

(iii)   Write completely a record of this table

(iv)   Name a suitable field for the primary key of this table

(v)   Name a weakness of this table

(vi)   Suggest a step that could be taken to prevent this weakness

(vii)   What kind of a relationship can be seen between the item and supplier

(viii) When the field item code is prepared to the ascending order, What is the first record? Write only the item code.

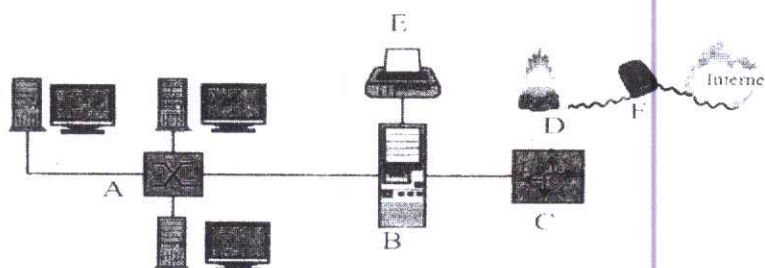(04) (a) Use a truth table to show that the expression (A+B).C=A.C+B.C is true

(b) Draw a flow chart to display all numbers from 1 to 50 and their total. Variables should be chosen accordingly.

(c) Mention the need of translators in a computer language. Explain briefly about compiler and interpreter in it

(d) Because of the use of information Technology, most of the hard tasks in the medical field has become efficient.

(i)   Name two medical devices which use ICT and briefly mention their tasks.

(ii)   What is telemedicine?

(iii)   Mention two uses of telemedicine.

(05) (a) The below figure shows a computer network connected with the internet

(i)   Identify and name the devices A,B,C,D,E and F.

(ii)   Briefly explain the task of the devices D & F

(iii)   Mention two pilot media used for transmission of data between two remote places

(b)Nimali has an email account. One day she received an e-mail from an unknown person. After opening that email she understood that her computer is not functioning properly.

(i) What can be the reason for this?

(ii) Write two other methods which can make the computer not function properly as above.

(iii)Name two actions that can be taken to safeguard Nimali's computer.

(c) Samantha needs to check the information of the hardware of his computer.

System Manufacturer :	Hewlett – Packard
Model :	HP ProBook 4520s
Rating :	3.9 Windows Experience Index
Processor :	Intel(R) Core(TM)i3 CPU M380 @2.53GHz 2.53GHz
Installed Memory(RAM):	2.00 GB (1.86 GB usable)
System type :	32-bit Operating System
Pen and Touch :	No Pen or Touch Input is available for this Display

(i)   What is the speed of the above computer?

(ii)   What is the memory capacity of this computer?

(iii)   According to the given   to what type does the above computer belong?

(iv)   The seller told that the computer doesn't support the touch sensitive screens. Extract the sentence that confirms the above saying rom the above

(v)   Mention two advantages of liquid crystal display (LCD) than cathode Ray Tube (CRT)

(06) Write details answer on followings.

(i) Describe about the misleading that has caused to younger generation due to use of social media and addiction to computer.

(ii) Name different type of malware that can enter to a computer. Write short notes about three methods they can enter to a computer.

(iii)What are e-waste ? Write short notes about three damages caused to the environments due to e-waste?

(iv) Name two advantages (benefits) of e-mail over traditional mail. Describe how a big (large) attachment such as an image file could be attached and emailed.

-    End   -