Southern Provincial Department of Education

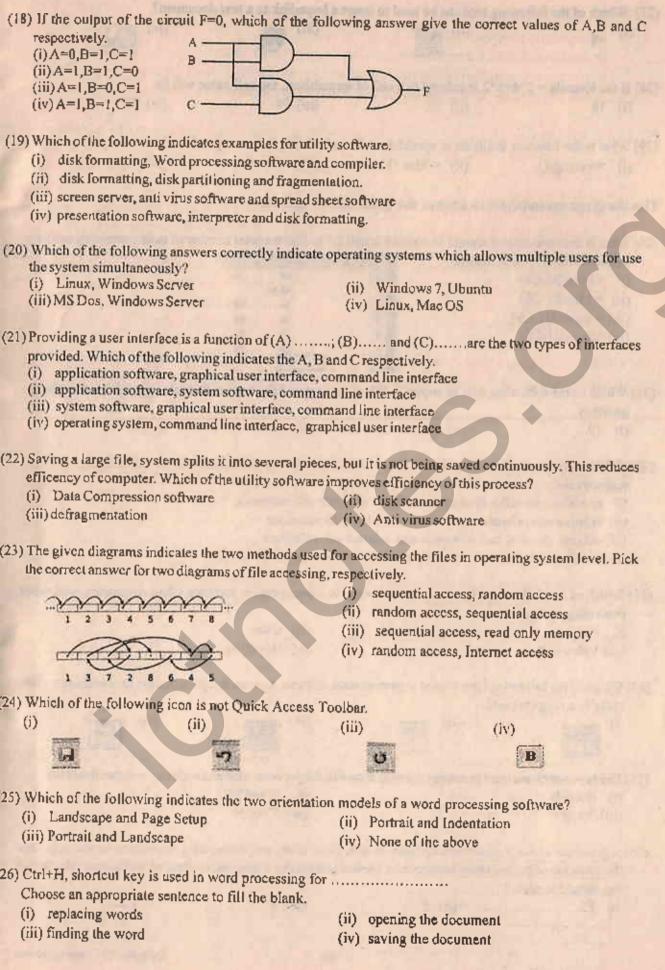
Year End Test - 2017

Information and Communication Technology - I Grade 10

Name / Ind	ex No	***************************************	Time - 1 hour
Important: Answerth In each of appropriate Put a cross	the question	I to 40, pick one of the al	ternatives (i), (ii), (iii), (iv) which is correct of mo
1) Which of (i) Anus (iii) Weat	the following nlabled graph her forecast f	can be considered as an info	mation? (ii) Apupil's marks for mathematics (iv) Price of a pen
Choose the	will not the erraine.	canswers to fill A, B, and C I	
(iii) ouipu Which of i	t, process, in	put	(ii) input, process, output (iv) input, output, process central processing unit only of a computer?
(B) Conto	ol Unit Disk ory Register	(ii) A, B, C	(iii) B, C, D (iv) A, B, D
) What is the	correct row n	natching facts about bar code	reader and digital versatile disk (DVD)?
	Row	Bar code Reader	Digital Versatile Disc
Maria III	Α	Input Device	Output Device
	В	Input Device	Storage Device
	C	Storage Device	Output Device
BETTERNESS	D	Output Device	Input Device
(i) A	(APM)	(ii) B	(iii) C (iv) D
(ii) For sec (iii) For thir	ond generation d generation	on computers computers	ed VLSI (Very-Large-Scale Integrated Circuits)?
(iv) For fou	rth generation	1 computers	marks with the same of the sam

(6) Which of following statement is incorrect regarding the Hub and the switch? (i) data transmission speed of Switch is greater than that of Hub. (ii) In data transmission, the switch sends data only to the target computer. (iii) In data transmission, the Hub uses half duplex mode while the Switch uses full duplex mode. (iv) In data transmission, the Hub sends data only to the target computer. (7) In data transmission, (A) form is used to send data from sender to the receiver only. (B)..... is used to send data in one direction at a time and (C)..... is used to send data in both directions at once. What is the answer given by (A), (B) and (C)? (ii) full duplex, simplex, half-duplex (i) simplex, half-duplex, full duplex (iv) full duplex, half-duplex, simplex (iii) half-duplex, full duplex, simplex (8) (A)....., which is used as a security barrier between internet and computer network is available in both software and (B) forms. Choose the correct answer for A and B blank respectively. (ii) Modem and Hardware (i) Hardware and Firewall (iv) Software and Hardware (iii) Firewall and Hardware (9) Which of the following binary number is equivalent to 130 10? (iii) 10000011, (iv) 10101100, (ii) 1000010, (i) 10000010, (10) Value of hexadecimal represent 'D' is (iv) 15, (iii) 15_m (i) 1100, (ii) 1110, (11) When correct 11001010, into octal and hexadecimal the correct answers respectly are? (iv) 521, and AC16. (iii) 421, and C10,... (ii) 312, and C2, (i) 322, and 9A₁₆ (12) If in ASCII 70 is the decimal values of F, what is the binary value of B? (iv) 1000110 (iii) 1000010 (i) 1000001 (ii) 10000011 (13) Which of the following is an invalid code of the BCD coding system. (iv) 1000 (iii) 1011 (ii) 1001 (14) The correct answer for the number of bits equivalent to 4MB is, (iv) 1024³x8 (iii) 1024 x8x4 (ii) 1024²x8 (i) 1024⁴x8x4 (15) Which of the following answers correctly indicate the most significant digit (MSD) and least significant digit (LSD) respectively of 0.50157 (iv) 5 and 7 (iii) 0 and 0 (ji) 9 and 7 (i) 0 and 7 (16) A student can choose bread (A) or string hoppers (B) with potato curry(C) or dhal (D) for his breakfast. What is the Boolean expression for the above scenario. (ii) (A OR B) AND (C OR D) (i) (A AND B) AND (C OR D) (iv) A AND B OR C OR D (iii) (A AND B) OR (C OR D) (17) What is the logic gate expressed by the given truth table, (i) AND gate 0 (ii) NOR gate 0 1 (iii) NAND gate 0

(iv) OR gate



(27) Which of the followi		sert a hyperlink to a text do	
(i) A	(ii) <u>A</u> <u></u>	(ili)	(iv)
(28) If the formula = 2^4+	5*2 is entered to a cell of	f spreadsheet, the cell value	will be
(i) 18	(ii) 22	(iii) 24	(iv) 26
	_	or calculating the average of	
(i) =Average()	(ii) = Mex ()	(iii) =Sum()	(iv) =count()
Use the given spreadshe	et to answer the quest	lons 30 and 31.	De Mieza appilla
		The same of the sa	ne Thin and Title
		ell B7 to find the total numb	er of cells containing numeric
values within B1: C6 o	ell range.	A 8 0 5	
(i) = Max(B1:C6) (ii) = Min(B1:C6)	2	63 eb	
(iii) = count(B1:C6)		52 63 63 36	
(iv) =Sum(B1:C6)		69 52	
	1	63 36	The state of the s
(31) Which of the followin	in will be shown in B7 is	Evoluentered the correct for	mula in cell B7 in the above
question,	g win oo silong in Dr, i.	you choice and context to	maia m con b) m dic accer
(i) 10	(ii) 11	(iii) 12	(iv) 9
(25) H175H (- / 1)	L. T. COTTOON T		((A) 1 (TI)
respectively.	, while "\$H\$2" is	B). Choose the correct answ	wer for (A) and (B),
	reference and column ab	solute cell reference	
(ii) relative cell refere	ence and column absolute	e cell reference	
	cell reference and relativ		
(IV) relative cell relet	ence and column and for	w absolute cell reference	
(33) Which of the following	ng object can be used on.	ly in a presentation softwar	e when comparing with word
processing software is			
(i) Pictures		(ii) Chart	
(iii) Video Clip	Complete II	(iv) Hyperlink	
(34) Which of the followin	g icon is used in presenta	tion software to view the pre	esentation in side shorter view,
to easily arrange the sid		and water traps on	and the last of th
	(ii) Re	(iii)	(iv)
			2.7
(35) The keys which are use	ed to display the next slide	e and the previous side of a sl	ide show respectively are
(i) NandB	ed to display the next slide	(ii) Nand W	ide show respectively are
	ed to display the next slide		ide show respectively are
(i) Nand B (iii) Nand P		(ii) Nand W (iv) Pand N	
(i) Nand B (iii) Nand P (36) A presenter uses a pre	sentation software in slid	(ii) N and W (iv) P and N e show mode and during his	ide show respectively are presentation he wants to draw itent of the current side. Which
(i) Nand B (iii) Nand P (36) A presenter uses a pre the attention of the aud key should he press?	sentation software in slid dience towards him for fe	(ii) N and W (iv) Pand N e show mode and during his w minutes by hiding the con	presentation he wants to draw itent of the current side. Which
(i) Nand B (iii) Nand P (36) A presenter uses a pre the attention of the auc	sentation software in slid	(ii) N and W (iv) P and N e show mode and during his	presentation he wants to draw

Use the given database to answer the questions 37, 38, 39 and 40.

	Prduct_Code	Prduct_Name	Unit_Price	Quantity	Suplier_ID
	B100	Milo	Rs. 50	10	S01
177	B101	lce Cream	Rs. 35	12	S02
	B102	Chocolate	Rs. 50	8	S01
	B103	Egg Bun	Rs. 25	10	\$03

- (37) Which of the following indicates the number of fields and records of the given table.
 - (i) 5 and 5
- (ii) 5 and 4
- (iii) 4 and 5
- (iv) 6 and 5

- (38) Which is the most suitable field for the primary key.
 - (1) Product Code

(2) Unit_Price

(3) Suplier_ID

- (4) Product Name
- (39) What is the most suitable data type for the Unit Price?
 - (i) OLE Object

(ii) Text

(iii) Number

- (iv) Currency
- (40) Which of the following only includes examples for database management software only?
 - (i) MS Access, Base and Oracle
- (ii) VisiCalc, MS Access and MS Excel

(iii) Oracle, SQL and MS Excel

(iv) Ms Access, Ms Excel and Oracle

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Southern Provincial Department of Education

Year End Test - 2017

Information and Communication Technology - II Grade 10

Name / Index No.....

Time - 2 hours

Answer five (05) questions only, selecting the first question and four (04) others. First question carries 20 marks and each other question carries 10 marks.

- (01) I. Dihsansa, a student designs a simple electronic circuit by using a dry cell, a bulb and few wires.
 Write down the input and output of the process separately.
 - II. Identify the following symbols precisely.

?

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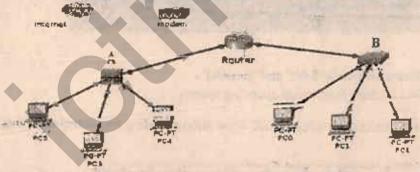


- III. The RGB value of dark blue is 38, 25, 209. State the binary code of 209.
- 1V. Kavindu says that, in Boolean algebra x.1=x. Prove this using a truth table.
- V. State two differences between graphical user interface (GUI) and command line interface (CLI)
- VI. Thesaurus is a facility in word processing software. Indicate it's function briefly.
- VII. Simplify the given equation, =2^3/(5-2^2)+4
- VIII.Identify the following icons available in presentation software.

(I)

(2) 38

- IX. What is meant by data encryption?
- X. What are the cyber crimes?
- (02) Given bellow is a computer network connected with the Internet.



- A and B are different devices which performs the same function. Identify A and B separately.
- If. State two main differences between A and B.
- III. State the function of modern and router separately.
- IV. A and B are geographically located in a wide area. Indicate the most suitable cable type that can be used to connect A and B to the router. Give reasons for your answer.

-01-

- V. Indicate the most suitable data transmission media type for following.
 - a. Remote controller of an air condition machine.
 - b. To share a picture between near by two mobiles.
 - c. for closed circuit television (CCTV) cables
 - d. communication over the Internet

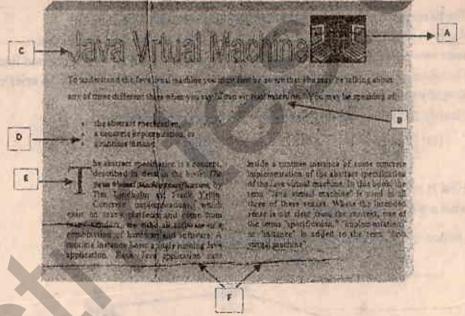
- (03) a) To start a full automatic motor chicle, following requirement should be met compulsorily.
 - a. Driver seated on driver seat (%)
 - b. pressing start button (B) or driver wearing seat belt (T).

For start a full automatic motor vaicle, Driver on driver seat (S) and pressing start button (B) or wearing seat belt (T) should be complisorily.

- I. develop a suitable Boolean expression for the above scenario.
- 11. Draw a truth table for the Boolea expression you developed.
- b) 1. Copy the following table to youanswer sheet and fill it using a given software. Software: Linux, Task manage, Google chrome, Windows 7

Operat	Application	Utility	
Free and Open Source	Software	Software	
	The same of the same of		

- (04) a) Given bellow is a document created using a Word Processing software. Then it was formatted using some common tools available in it. Write down the formatting tools used in A to F labels separately.



- b) I. What is the difference between "Save" and "Save As".
 - II. Briefly describe two main function of operating system.
- (05) Following spreadsheet indicates daily sales of ABC Food Shop including five branches. Using it, answer the following question.

	Compl	ele this ta	bie usin	g functi	One	£,		
				PO Ex	Elver	Daily S	alas	
4		- 180	Or to be a		Colle	Commission	Marin Star	Rober York
H	2 Keb	Day	S COMMISS	195100	41.0000	15580	14020	671340
	1816	Monday	125000	112070	187410	Cipes	10050	445330
I	17th	Tuenday	Claire	9500	197500	7450	15000	701-022923
諜	18th	Wedneeday	331000	28110	Close	1,0000	13600	38031
ď.	15th	Thurnday	197400	Ologo	252000	20040	Close	45944
	ZOUV	Friday	220800	125150	124680	25300	111.00	50503
1	#1 ut	Baturday	475000	257970	223500	15540	9900	1 09171
ĵ,	Sal	on Total	1649200	661620	1297130	96210	83590	379245
0	A	mmm	279865.7	1102700	2161863	16151.7	13931.7	540350

- State the formula that you should write in cell H6 to calculate the sales total on 15th Sunday. (without using function)
- II. State the function that should be entered to cell C14 to calculate the weekly sales average of the Colombo outlet.
- III. State the function that should be entered to cell I 6 to find maximum value of daily sales of 15th Sunday, (that function can be copied from I 7 to I 12 to the calculate the maximum value of each days)
- IV. If you are requested to indicate the daily sales in a chart, what is the most suitable chart type?
- V. Some time "######" can be seen within the cells which contains data in spreadsheet. What is the reason for that?
- (96) Sathyanjali is a self employed lady, who manufacturing sweets and distributes among mobile traders. She has created database including her business information.

Product Table

P_ID	Product Name	Manufacturing Date
P01	Kokis	07/21
P02	Oil Cake	07/21
P03	Kiri toffee	07/22
P04	Asmi	07/25
P05	Mun guli	07/30

Business Table

B_ID	Businessman Name	Phone_nu
BM01	Perera	071#######
BM02	Mahinda	077######
BM03	Kovil	075#######
BM04	Siva	072#######

Distribution Table

- In the latter of the latter						
B_ID	Distribution Date	P_ID	Count			
BM01	07/22	P01	20			
BM02	07/22	P03	25			
BM02	07/25	P04	35			
BM03	07/30	P05	45			
BM01	08/01	P02	60			

- Write down two primary keys that can be used in this database with their respective table.
- 11. Indicate the data type of the fields in Distribution_Table.
- III. Sathyanjali introduced a new sweet "Kalu dodol" on 5th August. She sent 15 to pieces to Perera on 6th August.
 - a) What is/are the table/tables should be updated.
 - b) Write down only the new row/ rows of the updated table/ tables.
- IV. What are the queries of database? Explain it using an example from above tables.
- 77)I. Nethmi says that it's not suitable to engage in computer games continuously. Explain this with two
 - Using of Facebook is generalized Today. Write down three restrictions we should use in social media.
 - III. There are two main ways to infect computer viruses.
 - a. Connecting external devices
 - b. Networking of computers.

Write down two methods you can follow to prevent the computer virus.

Describe two application of computer based teaching-learning process them the traditional teaching-learning process.

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