Southern Provincial Department of Education Year End Test - 2017

Information and Communication Technology - I

Name	Name / Index No						
 Ans In ea 	Important: Answer the all question. In each of the question 1 to 40, pick one of the alternatives (i), (ii), (iii), (iv) which is correct of most appropriate. Put a cross "X" on the answer sheet provided, relevant to the answer you selected.						
(1) Wh:	i) Which of the following can be considered as an information? (i) An unlabled graph (ii) Apupil's marks for mathematics (iii) Weather forecast for tomorrow. (iv) Price of a pen						
Cho (i) (iii)	"When data is (A)						
(B) (C) (D) (i)	Contol Unit Hard Disk Memory Register A, C, D	(ii) A,B,C		A, B, D			
	Row	Bar code Reader	reader and digital versatile disk (E	VD)?			
	A	Input Device	Digital Versatile Disc				
	В	Input Device	Output Device	Maria Carrier			
	C	Storage Device	Storage Device Output Device				
	D	Output Device	Input Device				
(i) A	45	(ii) B	(iii) C (iv) D				
(ii) F	h of the following for first generation or or second generation or third generation or fourth generation	on computers computers	d VLSI (Very-Large-Scale Integr	ated Circuits)?			

(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) 10101100₂ (ii) 1000010, (i) 10000010, (10) Value of hexadecimal represent 'D' is (iv) 15, (iii) 15... (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) 1000011 (13) Which of the following is an invalid code of the BCD coding system. (iv) 1000 (iii) 1011 (ii) [001] (14) The correct answer for the number of bits equivalent to 4MB is, (iv) 1024³x8 (iii) 1024 x8x4 (ii) 1024²x8 (i) 1024¹x8x4 (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

Grade 10 - ITI - Southern Province

(iii) NAND gate

(iv) OR gate

0

(18) If the output of the circuit F=0, which of the folk	Owing answer give the correct values of A P and C
respectively.	and C
(i)A=0,B=1,C=1 B	
(ii) A=1,B=1,C=0	4
(iii) A=1,B=0,C=1) F
(iv) A=1,B=1,C=1 C	
19) Which of the following indicates examples for utility	co Atumpa
(i) disk formatting, Word processing software and o	compiler
(ii) disk formatting, disk partitioning and fragmenta	tion
(iii) screen server, anti virus software and spread shee	er cofficere
(iv) presentation software, interpreter and disk forma	itting
20) Which of the following answers correctly indicate of	perating systems which allows multiple users for use
the system simultaneously? (i) Linux, Windows Server	
(iii) MS Dos, Windows Server	(ii) Windows 7, Ubuntu
(III) MB Bos, Williouws Servel	(iv) Linux, Mac OS
21) Providing a user interface is a function of (A);	(B) and (C) are the two times of invertence
provided. Which of the following indicates the A, B ar	ad Crespectively
 application software, graphical user interface, co 	mmand line interface
(11) application software, system software, command	line interface
(iii) system software, graphical user interface, comm	and line interface
(iv) operating system, command line interface, graph	nical user interface
12) Service - I St	
2) Saving a large file, system splits it into several pieces	, but it is not being saved continuously. This reduces
efficency of computer. Which of the utility software in	
(i) Data Compression software	(ii) disk scanner
(iii) defragmentation	(iv) Anti virus software
3) The given diagrams indicates the two methods used (
 The given diagrams indicates the two methods used f the correct answer for two diagrams of file accessing, r 	or accessing the rites in operating system level, Pick
	(i) sequential access, random access
1 2 3 4 5 6 7 8	(ii) random access, sequential access
200	(iii) sequential access, read only memory
	(iv) random access, Internet access
1 3 7 2 8 6 4 5	
4) Which of the following icon is not Quick Access To	albas
(i) (ii)	
Page 1	(iii) (iv)
19	O B
	AND THE PROPERTY OF THE PARTY O
5) Which of the following indicates the two orientation	models of a word processing software?
(i) Landscape and Page Setup	(ii) Portrait and Indentation
(iii) Portrait and Landscape	(iv) None of the above
O G. LVI	
6) Ctrl+H, shortcut key is used in word processing for	
Choose an appropriate sentence to fill the blank.	
(i) replacing words	(ii) opening the document
(iii) finding the word	(iv) saving the document

(27) Which of the following	g tool can be used to inse	ert a hyperlink to a text doc	ument?
(i) A	(ii) A ≣	(iii)	(iv)
			Man and a second
(28) If the formula = 2^4+5*	12 is entered to a cell of	spreadsheat, the cell value	will be
(i) 18	(ii) 22	(iii) 24	(iv) 26
(4)	(11) 22	() 21	()
(29) What is the function av	aitable in spreadsheet fo	r calculating the average of	a selected range?
(i) =Average()	(ii) = Mex ()	(iii) =Sum()	(iv) =count()
Use the given spreadsheet	t to answer the questie	ons 30 and 31.	
		The state of the state of	THE TWO IS NOT THE OWNER.
		The second second second	r of cells containing numeric
values within B1: C6 cel (i) = Max(B1:C6)	range.	A 0 0 5	The second section is
(ii) = Min(B1:C6)	2	63 eb	
(iii) = count(B1:C6)		52 63 63 36	
(iv) =Sum(B1:C6)		69 52	
The state of the s	6	63 36	
	16%1		
(31) Which of the following	will be shown in B7, if	you entered the correct for	mula in cell B7 in the above
question, (i) 10	(ii) 11	(iii) 12	(iv) 9
(1) 10	(11)	(111) 12	(IV) y
(32) "H2" is (A)	while "\$H\$2" is (B). Choose the correct answ	ver for (A) and (B),
respectively.	all filtrations in the same of	THE RESIDENCE AND ADDRESS OF THE	
(i) row absolute cell re	eference and column abs	olute cell reference	
7 *	ce and column absolute		
	l) reference and relative		
(IV) relative cell reletel	nce and column and row	aosolute cell reference	
(33) Which of the following	object can be used only	in a presentation software	when comparing with word
processing software is,			
(i) Pictures		(ii) Chart	
(iii) Video Clip		(iv) Hyperlink	
ZO 43 31 P. 1. P. 1. C. 1. C. 11			
to easily arrange the side		on software to view the pre	sentation in side shorter view,
(i)	(ii)	Gii)	(iv)
(M)	1		
(35) The keys which are used	to display the next slide		de show respectively are
(i) Nand B		(ii) Nand W	
(iii) N and P		(iv) PandN	the best and make
(36) A presenter uses a prese	entation software in slide	show mode and during his	presentation he wants to draw
			tent of the current side. Which
key should he press?			
(i) F5	P (ii) P	(iii) F1	(iv) B
ic			

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
110	B101	lee Cream	Rs. 35	12	S02
Ì	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,

?

*

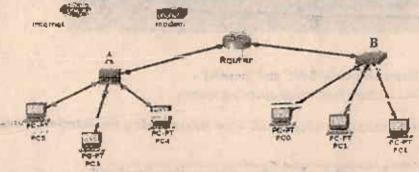


- III. The RGB value of dark blue is 38, 25, 209. State the binary code of 209.
- 1V. Kavindu says that, in Boolean algebra x.1=x. Prove this using a truth table.
- V. State two differences between graphical user interface (GUI) and command line interface (CLI)
- VI. Thesaurus is a facility in word processing 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)



- 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.
- II. 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

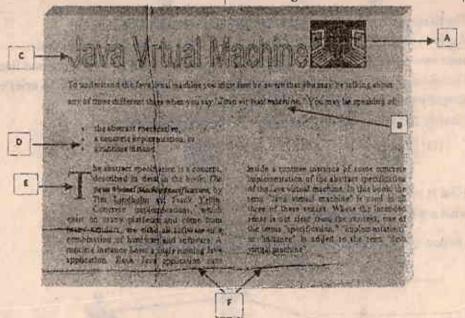
- (03) a) To start a full automatic motor chicle, following requirement should be met compulsorily.
 - a. Driver seated on driver seat (%)
 - b. pressing start button (B) or driver wearing seat belt (T).

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

- 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	
	Delivery and a survey		

- (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.

d				North A		<u>(, (, , , , , , , , , , , , , , , , , ,</u>		H
4	Compi	ele this ta	DIE MEIU	g runcu	7	2000	ole .	100
j			1	ABC Foo	od Shop	Delly S	ales	
		Dev	Colombo	Kendy	Galle	Gannaha	Nazwara Eliva I	Sales Tota
ä	15th	Sunday	294000	195120	212220	15580	140201	671114
ii.	10th	Monday	125000	112970	187410	Olore	10050	44533
W	17tb	Tuesday	Clote	9500	197500	7450	15000	22923
賊	18th	Wedneeday	331000	23110	Close	1,2000	13600	38031
ti	15th	Thurndey	197400	Ologo	252000	20040	Closs	45944
囊	ZOth	Friday	220800	125150	124680	25300	111.00	50503
П	#1 ut	Batumay	475000	257970	223500	15540	9900	100171
ű	Sal	on Total	1643200	661620	1297130	96910	83590	378245
g		Variable	2758887	1102700	2161863	16151.7	13931.7	540350

- I. 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#######
вмоз	Kovil	075#######
BM04	Siva	072#######

Distribution Table

Distribution (m)(c						
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			

- I. 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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