Mid Year Examination 2015 Information & Communication Technology I තොරතුරු හා සන්නිවේදන තාක්ෂණය I

Grade 11

Time: 1 hour

Answer all questions.

Name/ Index No.

- In each of the question 1 to 40, pick one of the alternative (1), (2), (3), (4) which you consider as correct or most appropriate.
- 01. What is the most accurate statement about the computer.
 - (1) A computer is an electric equipment which fulfill all needs.
 - (2) It is an equipment which turns data in to information.
 - (3) It is an electronic equipment which takes data and provide information after processing and can store many data and information.
 - (4) Not any of the above answers.
- 02. What is the correct order of processing technology which used in the classification of computer generation.
 - (1) Vacuum Tubs, IC, Transistors
- (2) Transistors, Vacuum Tubs, IC
- (3) Transistors, IC, Vacuum Tubs
- (4) Vacuum Tubs, Transistors, IC
- 03. What can be considered as an information.
 - (1) Names of the students in a class.
 - (2) The last four digits of a telephone number
 - (3) The graph which shows the number of students who has passed ICT in GCE OL
 - (4) The admission numbers of students.
- 04. ALT, CTRL, DEL are some of the keys in the computer key board. They are known as,
 - (1) Control Keys (2) Typing keys (3) Numeric keys (4) Special keys
- 05. The answer which includes only Pointing Devices
 - (1) mouse, light pen, touch pad, web camera
 - (2) light pen, scanner, mouse, Joystick
 - (3) Digital camera, mouse, light pen, web camera
 - (4) Touch pad, mouse, light pen, joystick
- 06. Consider the following statements.
 - A RAM is a volatile memory
 - B Register memory has the high data transmission Speed
 - C Floppy Disk has large memory capacity more than compact disk.
 - According to the above statements.
 - (1) Only A is true (2) Only A and B are true
 - (3) Only C is true (4) All are true

07	If has a = n (is a number system) the largest digit it that number system equal to							
07.	It base = n (is a number system) the largest digit it that number system equal to,							
	(1) $2*$	n	(2) $16*n$ (3) $n+1$ (4) $n-1$					
08.	What is t	What is the minimum value (The smallest) of these numbers $A=45_{10}$ $B=111000_2$ $C=37_8$					$C = 37_{8}$	
	$D = 1A_{16}$							
	(1) A		(2) B		(3) C		(4) D	
09.	If $P = 112$	$10_2 Q = 1111_2$	then P+	Q is,				
	(1) 100	102	(2) 110	012	$(3) 11101_2$		(4) 11100 ₂	
10.	The ICT	teacher input t	he ICT su	bject numbe	r as 80, using co	omputer k	eyboard. It store	as binary
	code in t	he RAM. What	is the bin	ary number r	elevant this sub	ject numb	er.	
	(1) 101	0002	(2) 101	00002	(3) 1010100	02	(4) 100001 ₂	
11.	Ravindu	has a collection	n of phot	os. It's capac	tity about 2850	KB. What	is the minimum	capacity
	should h	ave to save this	photos in	a flash Driv	re			
	(1) 1 M	B	(2) 1 GE	3	(3) 3 MB		(4) 2 GB	
12.	Accordi	ng to the ASCII	code, G=	=1000111 ₂ v	what is the chara	cter of 100	0100 ₂ in ASCII.	
	(1) H		(2) D		(3) F		(4) E	
13.	What is t	he suitable log	ic gate to i	elated to foll	owing truth tab	le.		
			TV I					
	A	B	<u>X</u>	(1) A-		, (2)	A	37
			1	В-		()	B B	-X
			1	(3) —	-10	(4)		
	1	1	0					
14.	Amerch	ant sells a pack	of three	tems for 500)/ The pack con	ntains 1 kg	g of rice (A) 1 kg	of Sugar
	(B) The customer can select either a 400 g of milk powder (C) or 1 kg of dhal (D) as the third Item.							
	Which o	f the following	Boolean	expression re	epresent above s	cenario?		
	(1) (A AND B) AND C AND D (2) A AND B AND (C OR D)							
	(3) A A	AND B OR (C	CORD)		(4) A OR B	OR (C A	ND D)	
15.	Thought	an operating S	ystem.					
	A - mar	nage the compu	ter memo	ry related to	stored file, folde	ers		
	B - gui	le to user for us	e comput	er giving inst	truction and give	e the help 1	to command.	
	C - buil	d the inter rela	ationship	between co	omputer user ar	nd compu	ter hardware wi	th giving
	inte	erface.	I		I	I I		0 0
	What is t	he correct state	ement amo	ong above sta	atements?			
	(1) On	v A and B	(2) Only	AandC	(3) Only B an	nd C (4	4) Only A, B and	1C
•	Conside	r the given spi	ead shee	t to answer o	uestion No. 16	and 17.	, , ,	
		8 1			16. If formu	la =COU	NT (B2 : B6) is	written in
					cell B7.	What is th	ne value would b	e display
		А	В	С	in cell B	7?		
	11	Name	IT	MATHS	(1) 315		(2) 05	
	2 1	Kamal	80	75	(3) 90		(4) 04	

3

4

5

6

7

Nimal

Pamal

Ruwan

Nuwan

No. of Students

50

60

75

90

80

80

70

93

- (3) 90 (4) 04
- 17. What is the formula should write in C8 cell to find the highest maths marks in the marks range.
- (1) = Total (C2:C6) (2) = Average (C2:C6)
- (3) = Max (C2:C6) (4) = Mini (C2:C6)

18.	One of the computer user tries to make a budget report using the Microsoft word 2007 software. What is the easiest method to do the mathematical calculation tasks for that?					
	(1) Open Ms excel and create a table \rightarrow Copy and paste to word page					
	(2) Microsoft Word \rightarrow insert \rightarrow Object \rightarrow obj	Microsoft Word \rightarrow insert \rightarrow Object \rightarrow object \rightarrow (select the suitable software excel)				
	(3) Create in the Excel and make as a PDF file	cel and make as a PDF file				
	(4) Open calculator on the computer screen					
19.	What is the Provide in a presentation software slide.	to move some image fro	om left side to right side in a			
	(1) Slide layout (2) Slide transition	(3) Animation	(4) Slide Design			
20.	What is the file extention use to save a electron	ic spread sheet.				
	(1) .Text (2) .xlsx	(3) .ppt	(4) .Doc			
21.	What is the main work	l formation can we see in	n this part.			
	ර්ගණක _{භාවිතය අද සමාජයේ} (1) Bolt and Alignme	ent	(2)Drop Cap			
	ඉතා බහුලය. (3) Insert word Art		(4) Grow font			
22.	What is the suitable field to put the primary key	y in a data base?				
	(1) Birthday	(2) Address				
	(3) Name	(4) National Identity	v card number			
23.	What is the most suitable data type to select to a	identity card number dat	ta field,			
	(1) Number (2) Text	(3) Date and Time	(4) Currency			
24.	Collection of main fields know as,					
	(1) Record (2) Layout	(3) File	(4) clip board			
25.	What is the relevant computer generation use i	nAssembly language?				
	(1) 1st Computer generation	(2) 2nd Computer ge	neration			
	(3) 3rd Computer generation	(4) 4th Computer gen	neration			
26.	is interprets a line by line in a compute	er programe.				
	(1) Translator (2) Interpreter	(3) compiler	(4) Assembler			
•	Considering the given flow chart to anser qu	estion number 27 and	28.			
	Start A					
	Number = 50	Ν				
		Num = Num - 5				
	Is Num < = 5 No	Print = Num				
	Yes					
	Stop					
27.	What is the output of above flow chart?					
	(1) 50, 45, 40, 35, 30, 25, 20, 15, 10	(2) 50, 55, 60, 65, 70, 7	75, 80, 85, 90			
	(3) 05, 10, 15, 20, 25, 30, 35, 40, 45	(4) 55, 45, 35, 25, 15, 0	05			

28.	If $num(E)$ Change as Num = Num - 10 then out put may be,			
	(1) $50, 40, 30, 20, 10$	(2) 40, 30, 20, 10), 0	
	(3) 10, 20, 30, 40, 50	(4) -10, -20, -30,	-40, -50	
29.	Not a high level computer language,			
	(1) VB	(2) JAVA		
	(3) Machine language	(4) C++		
30.	What is the control structure of IF, Els	se sentence in a comp	uter programe,	
	(1) loop	(2) Repetition		
	(3) Selection	(4) Sequence		
31.	Today large number of languages can be used	l in computer task. W	That is the reason for that,	
	(1) using internet	(2) use the unice	ode	
	(3) introduce new computers	(4) use modern	devices to computer	
32.	There is a small network which is spread in a	limited geographical	l area. It is known as,	
	(1) LAN (2) MAN	(3) WAN	(4) House Network	
33.	Which an example for online real time proces	ssing,		
	(1) ATM	(2) make teleph	none bill	
	(3) make paysheet	(4) make result	sheet	
34.	is sport to make decision for high level management.			
	(1) Executive information system			
	(2) Decision making information system			
	(3) management information system			
	(4) transaction information system			
35.	Which printers have heads and pins?			
	(1) Dot printers	(2) Inkjet printe	ers	
	(3) Laser printers	(4) Thermal pri	nters	
36.	Which is not a system development life cycle	e step.		
	(1) System Design	(2) System Ana	lysis	
	(3) System Classification	(4) System Main	ntenance	
37.	"School is a system. In which is not a sub	system in it.		
	(1) Teachers	(2) Mathematic	cal unit	
	(3) Vehicle park	(4) library		
38.	$\mathbf{A} = \# \qquad \mathbf{B} = \textcircled{a} \qquad \mathbf{C} = \&$			
	What is or what are the symbols can we seen	in e-mail address.		
	(1) OnlyA (2) OnlyB	(3) Only C	(4) Only A and B	
39.	$10 \mod 3 = ?$ What is the value ?			
	(1) 02 (2) 3.3	(3) 1	(4) 13	
40.	Central processing unit is contained with,			
	(1) Alu, Cu, Input Devices	(2)	Output, Input, process	
	(3) Menory, Display, Input	(4)	Alu, Cu, Memory	

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Time: 2 hours

Name/ Index No.

- Answer five questions only including first question and four other questions.
- The first question carries 20 marks and each of other questions carries 10 marks.
- 01. Write the short answers.
 - (1) Classify the computers according to technology.
 - (2) We can use many objects in data base management process. Write 02 objects we can use as to database.
 - (3) Match A and B columns.

А	В
A type of computer network	BCD
Guided media	PS2
Half Duplex Data Transmission	WAN
Computer cording system	UTP
Connect the mouse and Key Board	Walkie-talkie

(4) Write the boolean expression of following logic circuit and names the logic gates which use to create it.



- (5) Convert the Hexa Decimal number $7F_{16}$ into octal number'
- (6) Fill in the A and B blanks using correct answers in the brackets.

(Windows, Joseph Jacquard, DOS, Charles Babbage, Ada Augusta)

- (7) What is meant by Algorithm?Write two types of represent the Algorithm.
- (8) Write the parts of a system (sub system and components) which are in the bank.
- (9) Write two special features of USB port.
- (10) What is meant by Intranet? $(2 \times 10 = 20 \text{ marks})$

- 02. Ranil has a PC computer in his home. He tries to success his education using that and it helps him to communicate with a friend in abroad.
 - (1) Write two ways of using computer for education purposes. (02 marks)
 - (2) What are the main thing should have get internet facilities to computer.(02 marks)
 - (3) Write three ways Ranil communicates with his friend in abroad. (03 marks)
 - (4) Write three computer or ICT applications in Business and financial field. (03 m.)
- 03. A and B are the inputs of the logic gate circuit and X is the output.



- (1) Write the Boolean expression to represent the above logic circuit. (02 marks)
- (2) Draw the truth table for that expression. (02 marks)
- (3) Simplify the following sums.

1.	$100111_2 + 11111_2$	An malEducau	(02 marks)
2.	100101 ₂ - 1001 ₂	Southe Garte	(02 marks)

- (4) Convert teh Hexa Decimal $3D_{16}$ into Decimal. (02 marks)
- 04. R. U. K. Textiles is a recently developed one which started as a small industry. One worker kept the details of workers, their payings, buyings, storing and selling. Now they want to use computer system to keep records. The owner expect to give effective service to the customer, owners and to the bank by this.

(1)	a.	Write two disadvantages in manual information system.	(01 mark)

- b. Write four features of computerized information system. (02 marks)
- (2) Write the information system, system boundary, sub system, components and system environment according to above description. (02 marks)
- (3) What are the softwares can be used in this business industry. (02 marks)
- (4) You image as, you enter the employees data into table in this industry using data base software
 - a. Write four filed names can you use to design the table. (02 marks)
 - b. What is the most suitable field name to put the primary key in this table?(01 m.)

05.	The sample sp	read sheet in	follow show	vs the details	ofemploy	yers in a com	pany	1.
	1 1							

	Α	В	С	D	E	F
1	Name	No. of items sold	Commission for an item	Basic Salary	Commission	Gross salary
2	Kasun	10	15	3500		
3	Nuwan	12		3200		
4	Sujith	17		4000		
5	Amal	11		3500		
6	Ranil	09		3800		

- (1) Write teh required formula in cell E2 to find the commission of Kasun.(02 marks)
- (2) Write how to calculate the each employee's commissions. (02 marks)
- (3) Write the required formula should enter the F2 for calculate the gross salary of Kasun.(02 marks)
- (4) Write the method or steps of calculating the gross salary of each one. (02 marks)
- (5) Write the formula should enter the F7 for calculating the total amount of gross salary. (02 marks)
- 06. There is a table shows the difference of change the temperature and nature of water.

Temperature	Nature of water
Less than or equal 0°C	Ice
Less than 27 °C and grater than 0 °C	Coolwater
Less than 100 °C and grater than 26 °C	Hot water
equal or grater than 100°	Stream

- (1) Draw a flowchart to represent to above incidence. (05 marks)
- (2) Write the pseudo cord according that flowchart. (05 marks)
- 07. Write brief accounts on any four of the following titles.
 - a. system development life cycle b. e-government concept
 - c. Disadvantages of computer games d. Data transmission media
 - e. Advantages of Network f. Computer memory

(2.5 x 4 = 10 marks)