First Term Examination - 2015

Information and Communication Technology - I

-	ade 10 තොරතුරු හා සන්නිම	ලදන නාතුමාය .	- I Time : 1 hour
Na	me/ Index No. :		
•	Answer all questions.		
•	In each of the 1 to 40, pick one of the alte	rnatives (1), (2), (3),	(4) which you consider as
0.1	correct or appropriate.		
01.	Who invented the Adding Machine?		
02	(i) Gottfried Wilhelm (ii) Joseph Jacqua	ird (111) Charles Bac	bbage (iv) Blase Pascal
02.	Howard Aiken invented the machine called,	(ii) a maahaniaallaa	
	(i) Automatic Sequence Control Calculator(iii) Abacus	(iv) Pascaline	
03.	Not an attribute of information	(IV) rascalline	
05.	(i) Accuracy (ii) Size	(iii) Relevance	(iv) Timeliness
04.	Consider the following statements.		(IV) Timenness
01.	A - Keyboard is an input device		atton
	B - Monitor is and output device	1 sected	
	C - Flash Drive is a storage device	Con le Com	
	Which of the above is / are true?		
	(i) Aonly (ii) Bonly	(iii) A and C only	(iv) All A, B and C
05.	Under which of the following eategories is a Pe	rsonal Digital Assistar	nce classified?
	(i) Micro computer (ii) Mini computer	(iii) Main frame	(iv) Super computer
06.	Disadvantage of a micro computer than a mini		
	(i) Less electricity consumption.	(ii) Small in size	
(iii) Less expensive (iv) Less memory cap		pacity	
07.	Which of the following is not a way of giving in	formation as the outpu	it?
	(i) Soft Copy (ii) Live Copy	(iii) Hard Copy	(iv) Sound Copy
08.	An example for non-impact printer is,		
	(i) Line printer (ii) Thermal printer (iii)	Daisy wheel printer	(iv) Dot Matrix Printer
09.	The smallest unit of information is		
	(i) a byte (ii) a nibble	(iii) a bit	(iv) a block
10.	An example for volatile memory is.		
	(i) Random Access Memory	(ii) Compact Disk	
	(iii) Cache Memory	(iv) Hard Disk	

11. Which of the following is not a secondary storage media?

(i) Solid State Media (ii) Magnetic Media (iii) Optical Media (iv) Static Media

- 12. Consider the following statements.
 - A Magnetic Tapes a re used to back up data and information in server computers
 - B Hard disk is an example for read/writers memory
 - C Magnetic Media are used for read and write data and information in compact disk Which of the above is / are true ?

	(i)	Aonly	(ii) Bonly	(iii) A and B only	(iv) All A, B and C
13.	A 74 ₁₆ (hexadecimal) is equals to				
	(i)	1521 _s	(ii) 5164 _s	(iii) 1251 _s	(iv) 1526 s
14.	The decimal number 839 is equal to				
	(i)	1A9 ₁₆	(ii) 347 ₁₆	(iii) 1C8 ₁₆	(iv) 2D9 ₁₆
15.	Bin	Binary coded decimal equivalent to 94 is?			
	(i)	1010010	(ii) 10010010	(iii) 01011110	(iv) 100010010
16.	Une	equal of decimal nu	mber 25 is,	The same East	
	(i)	110012	(ii) 19 ₁₆	(iii) 11101 ₂	(iv) 31 ₈
17.	16 characters can be represented in BCD code. The BCD value of decimal 8 is,				
	(i)	11101 _{BCD}	(ii) 1010 _{BCD}	(iii) 00010000 _{BCD}	(v) 1000 _{BCD}
18.	IfX	= 10102 and Y = 12	11_2 the value of X = Y is.		
	(i)	11 ₁₆	(ii) 111 ₁₂	(iii) 10 ₈	(iv) 27
19.	What is the base value of the number system that consist of the digit set $\{0, 1, 2, 3, 4, 5, 6, 7\}$?				
	(i)	Two	(ii) Eight	(iii) Sixteen	(iv) Seven
20.	Wh	ich cannot be the re	esult after deduct 1 from	the number 1000 with u	nknown base.
	(i)	111	(ii) FFF	(iii) 1111	(iv) 999
21.	What is the MSD and LSD of the binary 0100010 respectively?				
	(i)	0,0	(ii) 0,1	(iii) 1,0	(iv) 1,1
22.	Which is the value equal to 3×2^{20} Byte.				
	(i)	3×2^{24} Bits	(ii) 3x 2048MB	(iii) 3 x 2048 KB	(iv) 3 x 1024 KB
23.	Wh	ich Hexadecimal v	alue is equal to the binar	y 11111111?	

	(i)	AB916	(ii) 1FF 16	(iii) 1E616	(iv) 1F7 16	
24.	Low capacity of storage device is,					
	(i)	Hard disk	(ii) Compact di	isk (iii) Digital ver	satile disk (iv)Floppy disk	
25.	The	The printer that can be taken quality printouts is,				
	(i)	Dot matric printer	r	(ii) Ink jet prir	iter	
	(iii)	Laser Printer		(iv) Daisy Wh	eel Printer	
26.	The	The data producer or the place where the data is produced for data transmission is known as,				
	(i)	Receiver		(ii) Data com	munication medium	
	(iii)	Sender		(iv) Data proc	essing	
27.	Client computer in computer network is known as.					
	(i) The computer which controls every works in computer					
	(ii)	The computer wh	ich provides necc	essary services for a co	mputer network	
	(iii) The computer which receive the services in computer network					
	(iv)	The computer wh	ich deliver data ar	nd information in comp	uter network	
28.	The unit Megahertz is used for,					
	(i)	To measure the ca	apacity of random	access memory		
	(ii)	To measure the ca	pacity of clock sp	beed rafe		
	(iii)	To measure the ca	pacity of hard dis	king		
		(iv) To measure the speed of data transmission speed,				
29.	Wh	ich of the following		device?		
	(i)	Touch Pad	(ii) Track ball	(iii) Joy Stick	(iv) Barcode Reader	
30.	QW	ERTY is connected				
	(i)	Keyboard	(ii) CPU	(iii) Mouse	(iv) USB	
31.		instructions for sta	arting the compute			
	(i)	CD Rom		(ii) Read only	•	
22		Random Access M	•	(iv) All the abo	ove	
32.	can be considered as Raw data.					
	(i) G.C.E. Advanced Level Examination Results					
	(ii) Z-Score of G.C.E. Advanced Level Examination Results					
	(iii) The Average Marks of students of G.C.E. Advanced Level classes.(iv) The list of TOP Ten in G.C.E. Advanced Level classes.					
22				anced Level classes.	docinformation	
<i>33</i> .	ACC	cording to the Odes	1000 number $32,$	can be considere	u as information.	

33. According to the Question number 32, can be considered as information.

- (i) Only i (ii) Only i, ii and iii (iii) Only ii, iii and iv (iv) All of the above
- 34. Which of the following performs modulation and demodulation in data communication?

(i) Netwo	ork Interface Card	(ii)	Satellite
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- (iii) Switch (iv) MODEM
- 35. Select the incorrect statement regarding the Audio Port.
 - (i) Audio port is used to connect Speakers, Microphones and external sound generating devices.
 - (ii) Line in is used to input sounds
 - (iii) Line out is in the colour pink
 - (iv) Line in is the colour blue
- 36. School Net is a network that connects 1000 secondary schools, 100 computer resource centers and many other institutes relating to education across Sri Lanka. Which of the following network type is most appropriate for school next?
 - (i) Local Area Network (ii) Metropolitan Area Network
 - (iii) WideAreanetwork
- 37. Which of the following computerized medical equipment uses radio waves technology?
 - (i) CT Scanner (ii) CAT Scanner (iii) MRI Scanner (iv) EEG Scanner

(iv) Bluetooth network

- 38. Selection of a suitable communication media is extremely crucial in expecting good performance from the network. If you only consider the "high speed data transmission", what will be your selection?
 - (i) Coaxial cable (ii) Twisted pair cable
 - (iii) Fiber Optical cable (iv) Shielded twisted pair cable
- 39. What is the correct answer for a feature of a portable computer?
 - (i) Lightweight (ii) Small (iii) LCD screen (iv) All of the above
- 40. The founder of the WWW is
 - (i) Charles Babage (ii) Tim Berners Lee (iii) Joshop Jackard (v) Kelvin

Grade 10

First Term Examination - 2015

Information and Communication Technology - II

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Time : 2 hours

Name/ Index No. :

• Answer five questions only, including question No. 1 and 4 other questions.

• First question carries 20 marks and each of the other questions carries 10 marks.

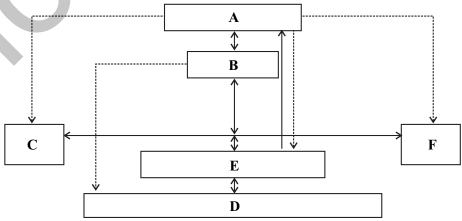
- 01. (i) Describe what is Information and Data by giving an example.
 - (ii) Copy the following table to your answer sheet and fill the blanks.

Generation	Technology used
1 st generation	
2 nd gerneration	
3 rd generation	
4 th generation	

Place a tick (✓) (✗) in the correct box to show whether each of the following sentences are TRUE or FALSE.

	TRUE	FALSE
ROM stands for Random Only Memory.		
ROM is permanent memory.	Calustion	
RAM stores data temporarily.	a land	
Adding more RAM to a computer will increase its processing power.		

- (iv) Give 3 examples for Micro Computers.
- (v) Write two examples for full duplex data transmission.
- (vi) Convert 10010010, binary numbers into decimal. Show your computations.
- (vii) Write two instances that Information and Communication Technology use in Banking field.
- (viii) Give two advantages of flash memory over a DVD RW
- (ix) Write two advantages of star topology.
- (x) Write four advantages of later generation computers other than 1^{st} generation computers.
- 02. The block diagram of a computer system is given below.



- (i) Name the components marked with letters A, B, C, D, E and F.
- (ii) Give two examples each for the components A, D and F
- (iii) The above computer system is used for numerical calculations of several numbers. In which component does this operation take place?
- (iv) Krishan prepares a report using a computer system. First he types a part of the report and saves it. After two days, he opens the partially complated report and completed report and completed it. He then took printouts of the report.

Identify the components among A, B, C, D, E and F that correspond to each of the following activities.

- 1. Typing the report
- 2. Saving the report
- 3. Printing the report.
- (v) What is the function of component E in carrying out the activities in (iv) above?
- 03. Identify the following ports and answer the questions given below.
 - (i) Name type of the port, number of pins/holes and write device/devices connect to them.
 - Serial Port
 - Parallel Port
 - VGAPort
 - PS/2Port
 - (ii) Write two special features of universal serial bus port.
- 04. Transmission of data from one place to another place is called Data Communication.
 - (i) What are the basic parts needed for data communication.
 - (ii) Write two main types of data communication media by giving two examples for each.
 - (iii) Name data transmission modes by giving one example for each.
- 05. With the development of the data communication, it is very important to develop the computer network in an organization.
 - (i) Name two computer network connecting devices.
 - (ii) Name the main types of computer networks.
 - (iii) Name two network topologies and briefly explain them by giving advantages and disadvantages of them.
 - (iv) Write two advantages and two disadvantages of computer networking.
- 06. Write short notes on 4 of the followings.
 - a. School Net in Sri Lanka.
 - b. using ICT in field of transportation.
 - c. Social problems you faced by using computers.
 - d. Computer is a learning tool.