

ZONAL EDUCATION OFFICE - JAFFNA

SECOND TERM EXAMINATION - 2014

Information and Communication Technology

Answer all the questions

Grade 10

Time : 3 Hours

	Part – I					
01. Which of the following is correct chronological order of the major technologies used in computers?						
1. Vacuum tube, I	C, Microprocessor, Tran	sistor				
2. Vacuum tube, N	Microprocessor, IC, Tran	sistor				
3. Vacuum tube, 7	Fransistor, Microprocess	or, IC				
4. Vacuum tube, 7	Fransistor, IC, Microproc	cessor				
02. Consider the following statements.A – Marks obtained for science subjects						
B – Average marks ob	tained by 30 students for	science subject in a clas	s			
Which of the following	g is correct?		•			
1. A is data and B is	information	2. A is information and	d B is data			
3. A and B are data		4. A and B are information	ation			
03. Which of the follow	wing lists the modern sto	rage media in the order of	of increasing capacity?			
1.CD, DVD, Hard disk		2. DVD, CD, Hard dis	k			
3. DVD, Hard disk, CI)	4. Hard disk, CD, DVI				
04. Which of the follow	wing is a volatile memor	y?				
1. Cache memory	2. Flash drive	3. Hard disk	4. Read only memory			
05. In CPU, "Aperforms arithmetic and operations andBdirects operation of the processor". A and B are respectively.						
1. ALU and CU	2. CU and ALU	3. ALU and memory	4. Memory and CU			
06. Which of the following is optical storage device?						
1. DVD	2. Flash drive	3. Hard disk	4. Floppy disk			
07. Which of the following is not a characteristic of valuable information?						
1. Accuracy	2. Reliability	3. Precise	4. Expensive			
·	•					
08. Binary equivalent of 19_{10} is.						
1. 10011	2. 10101	3. 10001	4. 10100			
09. 0.5 GB =						
1. 512 KB	2. 2 ⁹ KB	3. 500 MB	4. 2^9 MB			



17. Consider the following statements regarding word processing software. A – It allows inserting an image in a document. B – It allows using hyperlink in a document. C – It allows editing text already typed. Which of the above is/are correct? 1. A only 2. C only 3. A, B only 4. A, B, C all 18. The clock rate of a microprocessor is measured in. 4. bits 1. GB 2. bps 3. MHz **19.** In a word processing software, what is the icon that can be used to do superscript in a document? U 1. 3. 2. ahe **20.** In a word processing software, the shortcut keys used for bold, italic and underline are respectively. 1. Ctrl + B, Ctrl + C, Ctrl + I2. Ctrl + B, Ctrl + U, Ctrl + I3. Ctrl + B, Ctrl + C, Ctrl + U4. Ctrl + B, Ctrl + I, Ctrl + U**21.** Consider the followings. A – Spelling checker B – Macros C – Video editing Which of the above is/are the component(s) of word processing software? 1. A only 2. B only 3. A, B only 4. A, C only 22. Which of the following is incorrect regarding table used in a word processing software? 1. A table can be deleted. 2. A table cell can be re-sized. 4. Contents of a table cannot be formatted. 3. A column and row can be merged. 23. The output of NOT (NOT A)) is equivalent to. 1. A 2. NOT A 3.1 4.0 24. Which of the following may act as both input and output device? 1. Keyboard 2. Mouse 3. DVD-Writer 4. Scanner **25.** The two icons in a word processing software are used to. < > 1. Decrease or increase the font size of a paragraph 2. Decrease or increase the indent level of a paragraph 3. Decrease or increase the line spacing of a paragraph 4. None of the above **26.** The NAND gate output will be low if the two inputs are. 1.0,0 2.0, 1 3.1,0 4.1,1

3

27. Consider the following logical expression A, B and C. $A - NOT (20>25)$ $B - (20>50) OR (34 <= 56)$ $C - (10>2) AND (23<45)$ Which of the following represents the correct results of A, B and C respectively?1. True, False, True2. True, True, False						
3. False, True, True		4. True, T	True, True			
28. If the character 'D' is represented as 1000100_2 in ASCII code, what is the equivalent ASCII code for character 'B'?						
1. 1000001	2. 1000010	3. 1010101	4. 1000111			
29. Which of the follow1. Speed3. Physical size	2.	red to classify computers Technology Price	s as analog and digital?			
30. Consider the follow	vings					
So. Consider the followings.A - Capacity of hard diskB - Speed of microprocessorC - Capacity of memoryWhich of the above could be considered when you purchasing a computer?						
1. A only	2. A, C only	3. B, C only	4. A, B, C all			
	2. m, e omy	5. B, C only				
31. Which of the follow						
1. STP	2. Microwave	3. UTP	4. Optical fiber			
 32. The main reason for using of UPS (Uninterruptible Power Supply) with computer system is. 1. Protecting computer from lightning. 2. Providing backup power for computer if main power is disconnected. 3. Protecting computer from electricity. 4. Providing additional power for computer. 						
 33. Which of the following is incorrect about simplex mode communication? 1. One-way communication is possible. 2. Typical computer keyboard is an example for simplex mode communication. 3. Two-way communication is possible. 4. Radio broadcasting is an example for simplex mode communication. 						
 34. Which of the following is a correct order of computers based on their size? 1. Minicomputer, Microcomputer, Mainframe computer and Super computer 2. Micro computer, Minicomputer, Mainframe computer and Super computer 3. Super computer, Microcomputer, Minicomputer and Mainframe computer 4. Mainframe computer, Microcomputer, Minicomputer and Super computer 						
35. "A modulates digital signal into analog signal".						
A can be. 1. Router	2. Hub	3. Switch	4. Modem			

36. CPU stands for.

1. Central Processing Unit

3. Co-Processing Unit

2. Compact Processing Unit 4. Central Parallel Unit

4. OR

C – Firmware

4. A, B, C all

37. Consider the following truth table.

Α	B	Output
0	0	1
0	1	0
1	0	0
1	1	0

Which of the following gate represents the above mentioned truth table? 2. NOT 1. AND 3. NOR

38. "..... Port is used to connect computer monitor with computer" Which of the following is most suitable to fill the blank shown above? 1. PS/2 port 2. VGA port 3. Parallel port 4. Serial port

39. Which of the following memories stores the most number of bits? 1.1GB 2.1024 MB 3.2048 MB 4.512 KB

2. A, B only

40. The parts of a computer system is/are. B - Hardware

A - Software

1. A only

Part - II

3. A, C only

Answer first question and other four questions

01.

i. Write down two examples for *magnetic storage* devices.

- *ii.* Give two types of computers classifying *according to purpose*.
- *iii.* Convert 10011₂ into *octal* equivalent. Show your computations.
- *iv.* Write down the symbol and its corresponding truth table for *XNOR* logic gate.
- v. Copy the following table on your answer sheet and match the columns A and B.

	Α	В
<i>(a)</i>	Light pen	ROM
(b)	Printer	Input device
(c)	Non-volatile memory	Computer network
(<i>d</i>)	LAN	Output device

vi. is used to store more frequently accessed data temporarily. Fill in the blank using one of the following terms. [RAM, ROM, Cache memory, Register, Hard disk]





05. Consider the following letter prepared in a word processing software.

Run Elementary School

elcome to the first grade! I am looking forward to a very productive and exciting year in classroom. This year each student will be doing a lot of reading, writing, and problemsolving in English. In order to create a positive learning environment, I have developed a classroom discipline plan with specific expectations for all students. Everyone in the classroom will work together as a team to achieve our learning goals with few interruptions.

S

My classroom expectations:

~ P

- i. Treat others as you would like to be treated.
- ii. Expect the best.
- iii. Ask before acting.
- iv. Offer to help.
- v. Remember the signals. (quiet, question, bathroom, water, etc.)

If a student chooses to ignore an expectation:

- First Consequence: Verbal warning.
- Second Consequence: Thinking time (student will sit apart from group for 5-10 minutes)
- Third Consequence: Student loses privilege (such as: sitting with group, recess, etc.)
- Severity Clause: Office visit (if student chooses to fight or break multiple rules)

I look forward to working with your child and your family throughout the school year. My door is always open to you: please do not hesitate to contact me for any reason. It's going to be a great year!

Sincerely,

R

O .

Ms. Gates.

- *i.* Write down the facility used to create the letter W indicated by label P.
- *ii.* Write down the facilities used and indicated by labels Q and R.
- *iii.* What is the alignment used to create aligning text indicated by label S?
- *iv.* If you send this letter for 500 parents (in different names and addresses), individually, what is the facility to create that you would use, in a word processing software, to create this letter?
- *w*. Write down two advantages of using word processing software, comparing with type writer, in creation of a document.

06. Write down short notes on the followings.

- *i.* Applications of ICT in teaching and learning.
- *ii.* Advantages of computerizing term examination marks of all students in your school.
- *iii.* First Generation and fourth generation computers.
