் கிக்கு சீ கிசிகைச்சு பிடுக்கு அனைத்து உரிமைகளும் பாதுகாக்கப்பட்டவை All rights Reserved

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	இரண்டா Secon	தை லை கே மித வணை பதிப்படு Ind Term Evaluation		l 6
10 குத்லிக தரம் 10 Grade 10	தகவல் தொடர்பாட	ை கை	வினாத்தாள்-I	ஜரு <i>பிற</i> ி ஒரு <i>டுமணித்தியாலங்கள்</i> One Hour
Note :-	<i>appropriate.</i> i. Mark a cross (X) on th	ons. ns 1 to 40, pick one of the alternatives the number corresponding to your ch are given on the back of the answer she	oice in the answer sh	heet provided.

1) Which of the following is a typical use of backup memory in a personal computer?

- 1. To store the data need for process and output
- 2. To store instruction need for process
- 3. To store programme for boot-up process
- 4. To provide storages for the operation of a system need to be used in future.
- 2) Select the statement which can be considered as "information"?
 - 1. Price of a good.

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1. NIC

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- 3 Highest rainfall in Sri Lanka
- 3) The ICT tool that is used to read cheque detail in bank.
- Amount of tuition fee Today's Temperature
- 1. OMR 2. MICR 3. UPS 4. NIC
- 4) Which of the followings are features of fiber optic data transmission?
 - a. Velocity of light. b. Voltage c. Full internal reflection.
 - 1. a and b only. 2. b and c only 3. a and c only 4. c and d only.

4.

- 5) The foundation for creating mechanical computers started with the invention of
 1. ABC (Atanasoft Berry Computer)
 2. Analytical engine
 3. Pascal's adding machine
 4. ENIAC
- 6) Which of the following is / are the incorrect statement(s)?
 - A. Relevance of information varies from individual to individual
 - B. Timely data has its highest value.
 - C. The value of information drops down with its less significance.
 1. A and B only
 2. B and C only
 3. C and A only

2.



3.

Router

4.

Switch

See page 02

Hub

- A student decides to make on an electronic device for a water heater that is automatically disconnected when 9) •water level goes down while the electricity is on. Which of the followings logic circuit he may use. consider that water level down = 1, electricity on = 1
 - NOT AND NAND 3. OR 4. 1.

10) Which of the following pairs of BCD numbers represents an Odd value in both numbers 1. 0101, 0011 0010, 1000 0110, 0001 2. 3. 0111, 0110 4.

- 11) What were the special features found in 2nd generation computers?
 - 1. Smaller in size and higher electrical consumption than the previous machine.
 - 2. Lower electrical consumption than the previous machine and using Microchips.
 - 3. Need a larger space than modern machine and use vacuum tubes.
 - Smaller in size and lower electrical consumption than the previous machine. 4.
 - 12) Find the correct statement relevant to the basic function of a computer operating system,
 - 1. Controlling the devices and functions
 - 3. Test the accuracy of the Grammar

1

- Getting information by processing data. 2.
- Producing user's requirement based on a task 4.
- 13) The numbers, words, images and symbols which do not bear a meaning, when they are standing alone describe...
 - Information 2. Data 3. Process data Non of these 4.
- Submitting data, the result produced and arranging data in a meaningful way are defined by the 14) following statements respectively. Which of the following set of terms correctly describe the above? 1. output, process, input Process, output, input 2. 3. Input, process, output input, output, process 4.
- 34 Application 2. program translator Utility operating system 4. 3.
- 16) After scanning by a smart phone and connecting to the internet, further information can be obtained from the website of the relevant item.

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- 1. Bar code Item code 2. Ascii code 3. Qr code 4.
- 17) Consider the number '980_x' where 'x' is the base of the number system. Which of the following number system (s) can the number ' 980_x ' belong to ?
 - 1. Octal, Decimal or Hexadecimal
 - 3. Octal or Decimal only
- 18) Computers use binary code to store data because.....
 - Binary code is more reliable
 - Binary code takes up less space

- Hexadecimal or Decimal only 2. 4.
 - Binary, Hexadecimal or Octal
 - Binary code is much faster
 - Electronic circuits can only be 'on' or 'off'
- Which is not used for general data storage? 19) 1. **CPU**
 - 3. Magnetic tape
- 20) Select the network topology shown in the diagram Ring 1.
 - 3. Tree

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2. Hard disc Optical disc

Star

Mesh



- 22) What is the decimal equivalent of the binary 1100001_2 ?1. 1002.973.994.
- 23) Which of the following shows the smallest of BCD (Binary Coded Decimal shown below?
 1. 10000000
 2. 10000001
 3. 01110111
 4. 01101001

11111111

24) Which of the following conversion is not match with FF_{16} number?

2.

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1. 255_{10}

25) The characters "IT" represent ASCII values are displayed, which of the following Binary represent the values respectively. Binary 1000001 is represented as "A" in ASCII.
1. 1001001 1010100
2. 1000011 1010100
3. 1010100 1001001
4. 1001001 1010101

3.

 377_{8}

 1000000_2

4.

26) À question paper consists of five parts a, b, c, d, e. Candidates are required to answer three parts of questions. Part a is compulsory and the candidate has to select one from part b or c and d or e Which of the following represents the selection of parts of questions by a candidate?
1. a OR (b AND c) OR (d or e)
2 a AND (b or c) or(d AND e)

- 3. a AND (b AND c) (d OR e) 4 a AND (b or c) AND (d or e)
- 27) Mr. Perera runs a small business and daily he feeds sale items, quantities and prices into the computer system. He also calculates the amount of the sales and reduces of the stock from the previous balance every day. He prepares the total sales report and the balance of the stocks daily. Identify the inputs, processes and outputs respectively. As described in the above scenario.

A. sale items, quantities and prices.

-B. total sales report and the balance of the stocks.

C. Calculate the amount of the sales and reduce of the stock from the previous balance.

The correct order of the inputs, process and output

* 1. A, B, C 3. A, C, B 4. C, A, B

28) Find the most significant digit and the least significant digit of the number 023.080801. 2 - 32. 2 - 03: 2 - 84. 0 - 0

29) What is the result after evaluation of the following expression, considering the operator precedence of programming languages?
5*(3+1)*5-1^2
1. 19
2. 35
3. 79
4. 99

30) Fine correct Boolean expressions for the circuits given below



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31) Which one of the following is incorrect regarding Local Area Networks (LANs)?

• 1. Geographically distributed in a small area.

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- 2. Generally owned by a single person or an organization.
- 3. Consist of many shared data communication media with various interfaces.
- 4. Generally consist of topologies; Bus, Star and Ring.

32) A father presents an electronic talking parrot to his son on his birthday. It can be controlled remotely by two push button switches. When both buttons are pressed together only the parrot talk, otherwise it does not talk at all. The digital logic that corresponds to the operation of the talking parrot is

- 33) Consider the following images A,B and C showing different types of network cables :



- (1) A = coaxial,(2) A = fibre optic,
- (3) A = coaxial,
- (4) A = fibre optic,
- B = fibre optic,B = coaxial,
- B = twisted pair,B = twisted pair,
- C = twisted pair C = twisted pair C = fibre opticC = coaxial

34) The following is a set of electronic circuits operated by switches, identify the correspondent binary representation .







37) Consider the pins 1, 2 and 3 in the below circuit. If the value of pin 1 = 1 what would have been the pin 2 and 3 respectively?

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1 - 1

0 - 0

1.
$$1 - 0$$

3 $0 - 1$



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The following picture shows the relationship of the user with the computer system. The letter A and B Refers to

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- Operating System, Application software
- Utilities, Packages

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- Packages, Utilities
- Application Software, Operating System

Which of following is/are function/functions of an operating system. 39)

- process Management **A**)
- Device Management C)

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- Memory Management **B**) D)
 - Calculation management

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- A and B only. A only. 2. 3. A, B and C only. All A, B, C and D 4.
- 40) Select the incorrect statement about the page numbering in MS word document?
 - A. We can use different formats to insert page numbers
 - B. We can insert page number by using page number drop down menu from the Insert menu.
 - C. We can only insert it in the bottom of the pages.
 - D. after inserted page numbers ones it can't be removed

1. Conly ~ A and B only 2. A, B and C 3. C and D only



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கிக்கு உ`**கிலேலி ஆபிடுக்கு** அனைத்து உரிமைகளும் பாதுகாக்கப்பட்டவை Ail rights Reserved

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	രുളാന മാറ്റ നുതൽ – 2016 എൽപസ് ക്രഞ്ഞാക്രില്ക് – 2016 Second Term Evaluation – 2016
10 одбо <i>Б</i> лю́ 10 Grade 10	கைவல் தொடர்பாடலும் தொழினுட்பவியலும்வினாத்தாள்-II Information & Communication TechnologyPaper II
ote :- `	 <i>Answer all the questions.</i> <i>In each of the questions I to 7, pick 5 questions including Ist question write the most appropriate short answers for question one and as possible.</i> <i>Questions given for calculation or simplification have showed the method of simplifying.</i> <i>Further instructions are given on the back of the answer sheet. Follow them carefully.</i>

- 2. The process of dividing an individual drive into multiple logical drives is called a disk partitioning. List two relevant reasons for disk partitioning.
- 3. Make a list of 2 g-government services that are provided by the country.
- 4. Electronic signal of letter "E" represent 01000101₂, what is ASCII binary Code represents letter "B"
- 5. What is the binary number that is be indicated in a binary base counting frame as given below.

6. Find the most significant bit and the least significant bit of the number 0.11001_2 .

Consider the pins 1, 2 and 3 in the above circuit. If 2 = 0 and 3 = 0, what is the value of pin 1?



- 8. Software is a set of instructions given to the computer to perform some activity using a computer. Name two main types of software categories.
- 9. Name two main functions of an operating system.

10. The ICT teacher explains about some hardware devices of a computer. He says is a device used to read the lines printed on an item that is converted to an alphanumeric value. He also explains that is an input device which recognize marks made using a pencil or a pen which is commonly used to correct MCQ exam papers.
Fill in the blanks with relevant terms.

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- (i) Name the Five components which are labeled as V, W, Y and Z in the Figure.
 (ii) Name two different devices belong to category labeled as W
 (iii) Briefly explain the functions of Y, Z and V shown in the diagram.
- (b) The given figure shows a Network connected with the Internet

....



(i) Name the Six components which are labeled as A, B, C, D, E and F in the Figure.
(ii) Briefly explain the purpose of A and B
(iii) What is the data communication medium used in Wi-Fi

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See page 03

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Following is a logic circuit which construct for certain security purpose

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A	В	C	A and B	B or C	A and B or (B or C)
0	0	0	0	0	0
0	0	1	0	1	1
0 •	1	0	P	Q	R
0	1	1	0	1	1
1	0	0	0	0	0
1	0	1	0	S	Τ
1	1	0	U	1	V
1	1	1	W	1	1

(i) Fill with suitable values the blanks labeled P - W to complete the above truth table according to the

- expression.
- (ii) Rewrite the expression using relevant Boolean symbols.
- (iii) Draw the logic circuit corresponding to the above Logic expression.
- (iv) Following is a logic circuit designed for an explosive weapon store premises. To alarm signal giving there should be either heat generated in weapon store chambers OR arrival of unauthorized person in time between 5 p.m. to 6 a.m.



- a) Draw suitable logic gates to A and B
- b) Write the corresponding Boolean expression for "F" using A, B, C.

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See page 04

Following figure-shows Computer specification indicated from software installed in computer. Answer the questions using it.

System		
Manufacturer	Hewlett-Packard	
Model:	HP ProBook 4520s	

899 Windows Experience Index	
Intel(R) Core(TM) B CPU M 380 @ 2.53GHz 2.53 GHz	
2.00 GB (1.86 GB usable)	
32-bit Operating System	
nd Touch: No Pen or Touch Input is available for this Display	

- What is the clock speed of the CPU?
- ii. What is the capacity of main memory mentioned in this computer?
- iii. Write the category of the computer described in the specification?
- iv. This computer cannot support for touch screen. By which statement of the specification can we prove it? Write the relevant full statement for your answer.
- v. Write two benefits of a LED screen for your computer than CRT.
- 5. following figure shows the ports in back panel of the computer



1. Name the ports labelled from A to H

- 2. Name a device can be connected to the ports A,B,F,G
- 3. Name three specific characteristic of the port labelled D
- 4. Name two different devices can be connected with two ports shown in figure group labelled as C

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5. You can't see the port labelled as B in modern computers. Why is it?

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The following table describes the utility programs with their functions. Each item in Table A can be matched with an item in Table B. Write down the labels of the matching pairs in your answer sheet.

E)

Table A	<u>Table B</u>
A-Disk	P- Protecting the computer by identifying and eliminating
Defragmentation	(Remove)malware.
B-System diagnosis	Q- Filling the screen with moving an image or a pattern when
tools	computer is not in use.
	R-Organizing hard disk by rearranging clusters of small
C- Anti virus software	spaces
, 'ind virus sontware	together to get a larger free space.(to increase the efficiency
	of HD)
D-Screen servers	S- Monitor errors in hardware and software of computers
	(even network)

- 1. Draw two diagrams to show hard disk partitioned in to two and un -partitioned hard disk.
- 2. Write two advantages of GUI when comparing with CLI.
- 3. Write two operating systems with GUI.
- 4. Write main components of GUI.

6.

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- 5. Your teacher has prepared a file. It can be read but can't save with the changes you made. Write the steps to do the changes which the teacher has done on the file he prepared.
- 7. Following picture shows some paragraph formatting.



1) Identify the formats labeled A - F and select the suitable type of formatting from the formatting list given bellow. Write the label and its relevant format in your answer

- ^r [Left indentation, Right Indentation, First line Indentation, Hanging indentation, Line spacing, paragraph spacing]
- 2) Write three advantages you get by using word processing than type writer.
- 3) Identify the following text formatting which are bold and under lined.

Get CO2 and release O2 from the leaves at <u>Photosynthesis</u> Process of trees.