

- 9) what is the special characteristic that is not relevant for third generation computer,
1) using IC. 2) Using high level programming languages.
3) using a graphical user interface as OS. 4) using keyboard and mouse.
- 10) What is not a special characteristic of a computer,
1) Speed. 2) Efficiency 3) Accuracy. 4) Intelligence.
- 11) Computers can be classified according to its physical size and technology. The category that can be classified according to its physical size,
1) Analog Computers. 2) Digital Computers. 3) Hybrid Computers. 4) Micro Computer.
- 12) What is the correct path of saving data process by a computer,
1) memory register → main memory → secondary memory
2) memory register → secondary memory → main memory
3) main memory → memory register → secondary memory
4) main memory → secondary memory → memory register
- 13) Can be used to check the accuracy of a cheque,
1) OCR. 2) MICR. 3) OMR. 4) ATM.
- 14) What is the most electricity consuming monitor type,
1) LCD monitor. 2) LED monitor
3) CRT monitor 4) None of above.
- 15) Select the secondary storage device which is not using optical media,
1) SSD 2) CD 3) BLUE RAY 4) DVD
- 16) what is the octal number of the decimal value 447_{10} ?
1) 675_8 2) 677_8 3) 776_8 4) 576_8
- 17) What is the correct numbering system that relevant 749 ?
1) Only decimal . 2) decimal & binary.
3) decimal & hexa decimal. 4) octal & hexa decimal.
- 18) What is the binary value of the hexadecimal value $23A_{16}$,
1) 1000111010_2 2) 1110111010_2 3) 1001111011_2 4) 1000100010_2
- 19) What is the correct answer for ascending order of 1001111_2 , 165_8 , 687_{10} , $2A_{16}$?
1) 165_8 , 1001111_2 , $2A_{16}$, 687_{10} 2) 1001111_2 , 687_{10} , 165_8 , $2A_{16}$
3) $2A_{16}$, 165_8 , 1001111_2 , 687_{10} 4) 687_{10} , 1001111_2 , 165_8 , $2A_{16}$
- 20) What are the MSB value and LSB value of the binary number 0110111.0110_2 ,
1) 1 and 0 2) 0 and 0 3) 1 and 1 4) 0 and 1
- 21) How many bytes and nibbles are included in 16 bits?
1) 1byte, 2nibbles 2) 1byte, $\frac{1}{2}$ nibble 3) 2bytes, 4 nibbles 4) 2bytes, 2nibbles

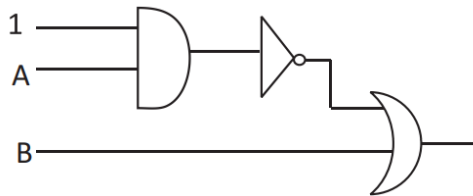
22) Number of bits using in ASCII coding system,

- 1) 4 2) 7 3) 8 4) 16

23) What is the maximum file from the below answers?

- 1) mp3 file with 3MB 2) gif file 1024 byte 3) txt file with 300byte 4) jpeg file with 2048 KB

24) For the output of the following logic circuit to be '0'. What values should be given to A and B.



- 1) 1 and 1
2) 1 and 0
3) 0 and 0
4) 0 and 1

25) Find out the suitable logic gate for following truth table

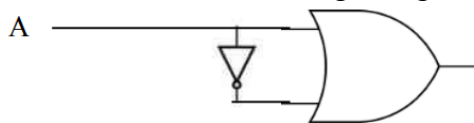
A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0

- 1) NAND
2) NOR
3) AND
4) OR

26) Which of the following logic gates can see the output going false only when all the inputs are true?

- 1) NAND gate. 2) NOR gate
3) AND gate. 4) OR gate

27) Select the correct statement regarding the output of following logic circuit



- 1) Always output is 1 . 2) Always output is 0.
3) output is 0 or 1. 4) input and output are the same.

28) Consider about following file extensions.

- A. docx B. png C. xlsx D. jpeg E. doc F. ppt G. xls

Which of the above is valid for files prepared using by word processing software and spreadsheet software correspondingly?

- 1) A , D and F,G 2) B , C and D , F 3) A , E and C,G 4)E, B and G , F

29) which short cut key is used to select a whole document?

- 1) Ctrl+S 2) Ctrl+A 3) Ctrl+H 4) Ctrl+X

30) Select the tools that only appear in the Home tab in word processing software,

- 1) Orientation, font color.
2) Bold, Font Size
3) Page size, Orientation
4) Underline, Table

31) Select the tools to insert your name to confirm the ownership of a document created by a word processing software and connect to your web page on the internet,

- (1) Bookmark , Cross-reference (2) Equation, Hyperlink
 (3) Watermark, Hyperlink (4) Watermark, Page Border

32) Select the incorrect statement about word processing software.

- (1) This can also be saved as pdf.
 (2) This software can be used to insert text, tables and photos.
 (3) This software can include animations.
 (4) Documents created by this software can also be printed in A4 and A3 format.

33) Consider the following statements about tables in word processing software and choose the correct the statements

- A. Two or more cells can be merged.
 B. Formulas can be used to Add values from several consecutive cells.
 C. Functions can be used for calculations.
 1) A only 2) B only 3) A and B 4) A B and C

34) Cannot be created using Mail Merge facility,

- 1) Letters 2) Envelopes 3) Folders 4) Reports

35) Which of the following is not an example for spread sheet software,

- 1) Excel 2) Google Sheets 3) LibreOffice calc 4) open office calc

36) Here is a small part of a work sheet of a spread sheet,If the function = max(A1,B3,C2) is written in C4, the value shown in that cell is?

- 1) 9 2) 12
 3) 6 4) 5

	A	B	C	D
1	2	5	6	
2	6	6	3	
3	5	9	12	
4				
5				
6				

37) Which function can be used to find the number of cells contained in a cell range

- 1) =Max() (2) =Counta() (3) =Sum() (4) =Count()

38) If the function =Sum(A1:A4)is written in cell A5, the value shown in that cell is ?

- 1) 4 2) 16
 3) 16+AB 4) #Error!

	A	B
1	2	
2	5	
3	AB	
4	9	
5		

39) If the function = Min(A1:A4)is written in cell A5, the value shown in that cell is ?,

- 1) 5 2) 2 3) AB 4) 9

40) Cell may contains,

- 1) Text 2) Numbers 3) Formula 4) all of the above.

Second Term Test-2023

Grade 10

Information & Communication Technology

PaperII

Time 02 h

Name

Important.

- First question is compulsory and answer four other questions.
- 20 marks will be given for the question number 01 and 10 marks will be given for the other questions .

- 1) (i) Convert 49_{10} to it's decimal number.
- (ii) Name two solid state storage devices (Semiconductor storage device)
- (iii) What are the analog computers?
- (iv) What is the largest number among these numbers?
- a) 1111010101_2 b) 147 c) 1124_8 d) $12BD_{16}$
- (v) Why is a dot-matrix printer not suitable for hospital theaters?
- (vi) Draw a diagram to connect the computers named C1, C2, C3, C4 according to a bus topology.
- (vii) The character "m" is represented in the ASCII table as 109_{10} , Write the ASCII code for the word 'no'.
- (viii) There are some blanks regarding to the data measuring units. fill in the blanks (A-H) in following table.

8 bitsA.....
.....B.....	1 kilobyte
.....C.....D.....
.....E.....	1 Gigabyte
.....F.....G.....
.....H.....	1 Petabyte

- (ix) Write two basic components required for data communication.
- (x) Write two disadvantages of distance learning. (2x10=20)

2) Meaningful processed data is identified as information.

- a) Write two examples for data and information. (Marks 2)
- b) Zonal education office is set up to use a fingerprint machine to record attendance. By placing the finger on the sensor, the concerned person will be correctly identified and the time of arrival and departure will be recorded and given as soft copies. Write the input, output and process of this system. (Marks 3)
- c) Select the most suitable answer for A from the B category. (Marks 5)

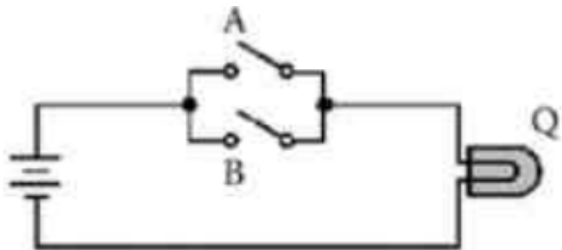
A Category

1. Guided media
2. Network connecting devices
3. Internet
4. Network Topology
5. Mouse

B Category

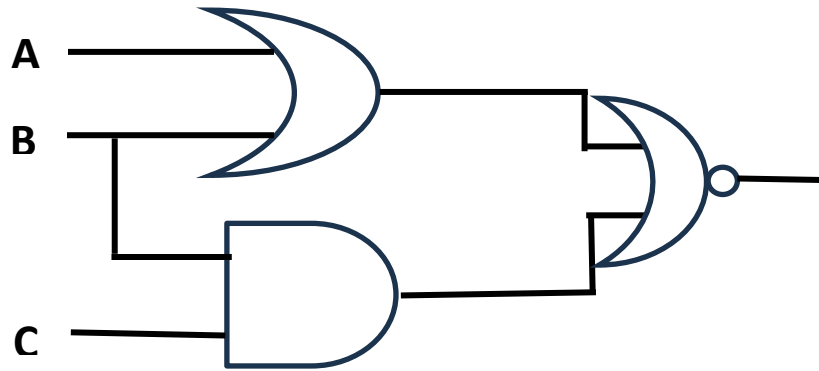
- A. Switch
- B. PS/2 Port
- C . BUS topology
- D. Fiber cables
- E. World Wide Web(WWW)

3) I) Main door or the back door can be used to exit or enter the house. Here is the electric circuit for above statement.



- I. What is the logic gate represents in above circuit. (marks 1)
- II. Draw the logic gate for this. (marks 1)
- III. Write the logical expression for the gate. (marks 1)
- IV. Draw the truth table. (marks 1)
- V. Mention two combinational logic gates. (marks 1)

II) Construct the logical expression corresponding to the diagram below and draw the truth table.
(marks 5)



4) I .State the following statements are true or false . (marks 5)

1. ASCII coding system was used in Mainframe computers.
2. Unicode code system can be used to represent letters , symbols and pictures.
3. 16 bits can be represented in BCD code system.
4. EBCDIC code system allows the use of seven bits binary numbers.
5. BCD code system is used to represent decimal numbers.

II. Write hexa decimal value for following colour codes. (marks 5)

colour	Hexa decimal value	R	G	B
Blue	#	21	21	255
Light green		55	227	47
black		24	22	23
purple		135	31	121
yellow		255	238	0

5) I. State the following statements are true or false.

- A. Find and Replace helps you to find words in a document and replace words.
- B. Ctrl +END and Ctrl+Home keys are used to take the cursor at the beginning of the document and the end of the document respectively
- C. FrameMaker and Lyx are examples for word processing software.
- D. Ctrl+K keys are used to connect to internet directly from a document created by using a word processing software. (marks 2)

II. Following is a document that created using word processing software.

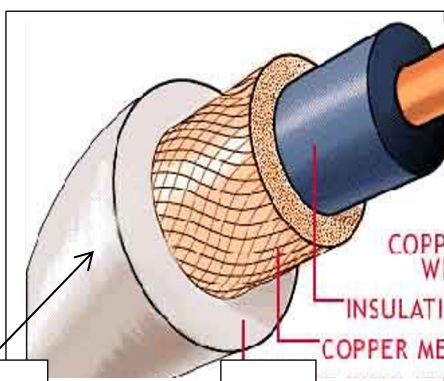
- b. To create this document name two soft wares that should be opened on any computer with internet access. (marks 1)
- c. Smart phones and tablet PC's are used for word processing today .Write two word processing software are available for this purpose? (marks1)

- iii. Select and write the tools(labeled 1 to 18) for shaping from (A-F) in the below document. (marks 6)

CONNECTING TO A NETWORK

There is a **variety of connection** or cabling options to access information to or from a network. Newer connection types allow data to flow much quickly, and more people are setting up or switching to faster connection methods. Some popular connection options include.

- Coaxial



A copper wire surrounded with insulation with a grounded cover of braided wire to minimize electrical and radio frequency interference.

- Fiber optics

<https://ecomputernotes.com>

The screenshot shows the Microsoft Word ribbon with 18 numbered boxes pointing to specific tools and options:

- 1: Font face (Calibri)
- 2: Bold (B)
- 3: Italic (I)
- 4: Underline (U)
- 5: Hyperlink icon
- 6: Bookmark icon
- 7: Picture icon
- 8: Clip Art icon
- 9: Shapes icon
- 10: Text Box icon
- 11: Quick Parts icon
- 12: WordArt icon
- 13: WordArt Style 1 (A)
- 14: WordArt Style 2 (A)
- 15: WordArt Style 3 (A)
- 16: Paragraph icon (bulleted list)
- 17: Paragraph icon (numbered list)
- 18: Paragraph icon (multi-level list)

6. "Beautiful Life" is a small business that collect village produce and delivers it to supermarket. Below is a excel sheet that use to create their monthly salary.

	A	B	C	D	E	F
1	BEAUTIFUL LIFE					
2	MONTHLY EMPLOYEE SALARY LIST- AUGUST					
3	EMPLOYEE NO.	NAME	BASIC SALARY(Rs)	TRANSPORT ALLOWANCE(Rs)	LOAN INSTALLMENT(Rs)	NET SALARY(Rs)
4	A001	MALITH PERERA	23000	3000	-	26000
5	A002	KAMAL SILVA	22500	2500	2000	23000
6	A003	RUWAN FERNANDO	25000	-	2000	23000
7	A004	SAMAN KUMARA	19750	-	1750	18000
8	A005	NANDANA KUMARAGE	21200	3500	-	24700
9						
10	TOTAL ALLOWANCE FOR TRANSPORT					
11	LOAN INSTALLMENT RECEIPTS					
12	TOTAL AMOUNT PAID FOR SALARY					
13						

- I. Write down the formula to calculate the net salary of Malith Perera of employee number A001. (The same formula is to be used to calculate the net salary of other employees as well)

$$= \text{basic salary} + \text{transport allowance} - \text{loan installment} \quad (\text{marks } 2)$$
- II. Write down the formula for writing the total cost of transport allowances in cell D10.

$$= \text{function}(\text{cell1}:\text{cell2}) \quad (\text{marks } 2)$$
- III. Write the formula using functions to write the number of employees receiving transport allowances in cell D11.

$$= \text{function}(\text{cell1}:\text{cell2})$$
- IV. Use the function to write the corresponding formula in cell D9 to display the maximum amount received in transportation allowances. (marks 2)
- V. Name two types of graphs that can be drawn to show the net pay received by each employee. (marks 2)

7) Information & Communication Technology is used in most of the fields.

- I. Write two G2C (Government 2 citizen) services in e.government.
- II. Write the function of EEG(Electro-encephalography) machine and ECG(Electrocardiogram) machine.
- III. Write two examples for Telemedicine.
- IV. Write two examples for ICT in management of farmhouse.
- V. Write two ways to pay for a product or service through e.banking. (marks 10)



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විභාග ඉලක්ක

පහසුවෙන් ජයගන්න

ඕනෑම පොතක් ඉක්මනින්
නිවසටම ගෙන්වා ගන්න



| කෙටි සටහන් | පසුගිය ප්‍රශ්න පත්‍ර | වැඩ පොත් | සඟරා | O/L ප්‍රශ්න පත්‍ර
| A/L ප්‍රශ්න පත්‍ර | අනුමාන ප්‍රශ්න පත්‍ර | අතිරේක කියවීම් පොත්
| School Book | ගුරු අත්පොත්



පෙර පාසලේ සිට උසස් පෙළ දක්වා සියලුම ප්‍රශ්න පත්‍ර,
කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා
සිංහල සහ ඉංග්‍රීසි මාධ්‍යයෙන් ගෙදරටම ගෙන්වා ගැනීමට

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