



Grade
10

Third Term Test - 2022

Information and Communication Technology 1 /11

School Name :

Index No:

Time 03hrs

Should be considered.

- Answer all questions.
- In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is correct or most appropriate.

1. Meaningful is obtained by filing and processing, which helps in decision making.

Appropriate answers for the above blanks respectively are,

- | | |
|------------------------|-----------------------|
| (1) Data, Output | (3) Information, Data |
| (2) Input, Information | (4) Data, Information |

2. Which of the following is not a characteristic of the computer?

- Speed
- Versatility
- Accuracy
- Intelligent

3. Which of the following services in Sri Lanka are examples for Government website of Sri Lanka (<http://www.gov.lk>), Government Information Center (1919), Information and Communication Technology Institute (ICTA)

- For application in the Education
- For applications in the health sector.
- For e-government applications.
- For application in agriculture

4. There is a need to prepare a land where waste has been disposed for a long time as a cropland.
what is the most suitable practical method to be done before starting the cultivation of this land.

- Provide water supply to the land and moisten the soil well.
- Soil preparation using organic fertilizers.
- Start cultivation by spreading the soil brought from outside on the surface of the cultivation.
- Checking the soil samples by measuring the condition of the cultivated land and verifying whether it is suitable for cultivation.

5. Which of the following is used to get out processed information from computer?

- | | |
|---------------------|---------------------|
| (1) Input Devices | (3) Output Devices |
| (2) Process Devices | (4) Storage Devices |

6. Examples of are music, touch screen, operating system, light source etc.

- | | |
|-----------------------------------|----------------------|
| (1) Image and video input devices | (3) Pointing devices |
| (2) Scanner devices | (4) Audio devices |

7. Themia purchased a machine to issue a receipt for the purchases of its shop. In an emergency, he realized that the receipt he received from the ATM machine and the receipt issued by his shop were the same. The printer used to print the receipts was,

- (1) Ink Jet Printer
- (2) Laser Printer
- (3) Thermal Printer
- (4) Plotter

8. What is the following computer network topology

- (1) Tree Topology
- (2) Mesh Topology
- (3) Star Topology
- (4) Ring Topology



9. What is a bit pattern that cannot be a BCD value?

- | | | | |
|--------------|--------------|--------------|--------------|
| (1) 10011000 | (2) 10101001 | (3) 01011000 | (4) 01100011 |
|--------------|--------------|--------------|--------------|

10. What is the decimal number equal to the hexadecimal number of $8D_{16}$?

- | | | | |
|----------------|----------------|----------------|----------------|
| (1) 145_{10} | (2) 141_{10} | (3) 254_{10} | (4) 155_{10} |
|----------------|----------------|----------------|----------------|

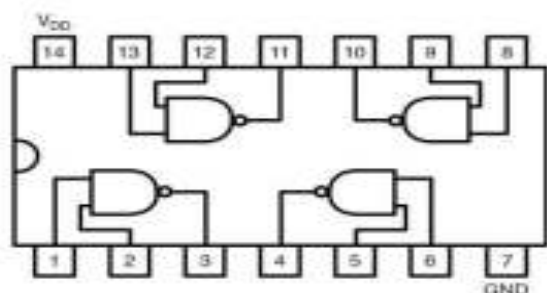
11. What is the coding system that can represent 128 different characters?

- | | | | |
|---------|------------|-----------|-------------|
| (1) BCD | (2) EBCDIC | (3) ASCII | (4) UNICODE |
|---------|------------|-----------|-------------|

12. Considering the following integrated circuit, what can be the values of pin 11 and pin 13 if pin 12= 1?

- A- 0,1 B- 1,0 C- 1,1

- (1) A and B only
- (2) A only
- (3) B only
- (4) A and C only



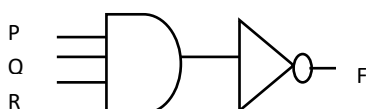
13. A question paper consists of five parts a, b, c, d, e. Candidates must answer 03 parts. Part a is compulsory and one question from parts b or c and one question from parts d or e must be selected and answered. Which of the following indicates how candidates should answer?

- (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)

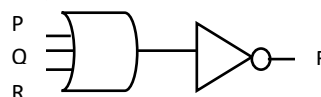
14. Consider the logic circuit with three inputs P, Q, R and one output F. The following observations were made in that circuit.

- a . If any one input is 1, the output F is 0 regardless of the remaining inputs.
- b . If all inputs are 0 then F output is 1.

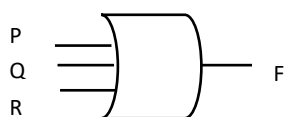
1.



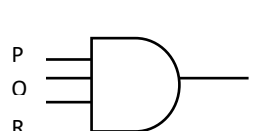
2.



3.



4.



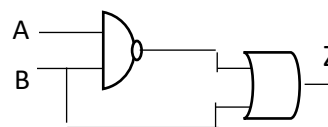
15. What is the truth table for this logic circuit?

A	B	Z
0	0	1
0	1	1
1	0	0
1	1	1

A	B	Z
0	0	1
0	1	1
1	0	1
1	1	0

A	B	Z
0	0	1
0	1	1
1	0	1
1	1	1

A	B	Z
0	0	1
0	1	0
1	0	0
1	1	1



16. What are the two main services provided by operating system?

- (1) Providing user interfaces / Disk defragmentation
- (2) Disk formatting / Disk replacement
- (3) Hardware management / Providing user interfaces
- (4) Disk Partition / Hardware management

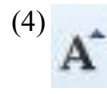
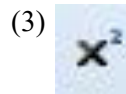
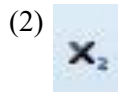
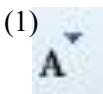
17. Based on the functionality of the Operating System it can be classified as,

- (1) Single user / Multi user / Multi-tasking / Real time
- (2) Partition / Formatting / Defragmentation / Scanner
- (3) Memory Management / Device Management / File Management
- (4) System software / Application software / Utility software

18. Booting means the operating system into the computer's memory.

- (1) Processing
- (2) Loading
- (3) Assigning
- (4) copying

19. Which of the following is used to increase the size of characters in a word processing software



20. What is the function of shortcut key Ctrl + H in Word processing software?

- (1) Paste something copied.
- (2) Taking a printout.
- (3) Find and replace words.
- (4) Getting help.

21. What is the tool that can be used to copy all the Font Formatting used for 'X' texts to 'Y' texts at once ?

- X. ***We are changing the world with Technology***
- Y. Technology is best when it brings people together.



22. Which of the following are used to setup the page orientation?

- (1) Bullets and Numbering.
- (2) Superscript and Subscript
- (3) Portrait and Landscape
- (4) Find and Replace

23. When the formula in cell E2 in the image is copied to cell E4, what is the formula shown in cell E3?

- (1) =\$A\$1*D4
- (2) =A1\$*D3
- (3) =\$A1*D3
- (4) =A\$1*D3

The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F
1	10	8	6	10	100	
2		5	9	13		
3			12	16		
4				19	190	
5						
6						

Arrows in the image point to the following elements:

- A:** Points to the active cell, C5.
- B:** Points to the formula bar, which shows the formula =A1*D3.
- C:** Points to the address bar, which shows the cell address C5.

24. Select the option shown in the figure A,B,C arrows respectively..

- (1) Active cell, Formula bar, Address bar
- (2) Formula bar, Address bar, Active cell
- (3) Address bar, Formula bar, Active cell
- (4) Formula bar, Active cell, Address bar

25. What is the formula to be entered in cell F1 to get the total of A1:D1 ?

- (1) =average(A1:D1)
- (2) =SUM(A1:D1)
- (3) sum(a1:d1)
- (4) average(a1:d1)

26. What is the most suitable type of chart to show the marks for each subject of your class's grade 10 term test?

- (1) Pie chart
- (2) Line chart
- (3) Bar chart
- (4) X-Y chart

27. The number of cells in the cell range A1:C3 in a Electronic spreadsheet software is,

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

28. What is the Slide Sorter View among the following views in electronic presentation software?



A



B



C



D

(1) A

(2) B

(3) C

(4) D

29. The visual movements that occur when slide show in a presentation shifts from one slide to the next slide are called by this name.

(1) Slide Design

(2) Animation

(3) Slide Transition

(4) Slide Layout

30. A visual movement applied to a single object of a slide in a presentation is called

(1) Slide Design

(2) Animation

(3) Slide Transition

(4) Slide Layout

31. What task can not be done using Electronic presentation?

(1) mail merge can be used

(2) Objects can be animated.

(3) Tables can be created

(4) Chart can be created

32. The shortcut key can be used to create a new presentation and the shortcut key must be used to insert a new slide in a presentation. what are more suitable shortcut keys for the above blanks respectively?

(1) Ctrl+N and Ctrl+N

(2) Ctrl+M and Ctrl+N

(3) Ctrl+M and Ctrl+M

(4) Ctrl+N and Ctrl+M

33. Which of the following is the most appropriate data type for storing a foreign passport number (eg N354373) in a database table?

(1) Numbers

(2) Currency

(3) Date/Time

(4) Text

34. A column that can uniquely identify a record in a table is called a

(1) Key

(2) Main key

(3) Alternate key

(4) Primary key

35. Consider the following statements regarding to database

- A - Data can be inserted using a form
- B - Data can be inserted using a table
- C - Data can be inserted using a report

Which of the above statement/statements is/are correct?,

- | | |
|------------------|------------------|
| (1) A and B only | (3) A and C only |
| (2) A only | (4) B and C only |

36. Repeated entry of data in each of the columns in a table is called,

- (1) Data Duplication
- (2) Data Types
- (3) Data Redundancy
- (4) Relationship

37. The rows of a database table are called records and its columns are called,

- (1) Labels
- (2) Fields
- (3) Data Types
- (4) Cells

38. Which of the following can be used to enter data into a database?

- (1) Chart
- (2) Report
- (3) Form
- (4) Index

39. Alphabetical arrangement of records in a database is called,

- (1) Replacing
- (2) Searching
- (3) Selecting
- (4) Sorting

40. Limiting computer use as a security method is best suited to,

- (1) Applying a password
- (2) Applying anti-virus software
- (3) Use of fire wall
- (4) Installation of CCTV

Grade 10 – Information and Communication Technology – Part II

- Answer five (05) questions only, including the first question and four others.
- First question carries 20 marks and each of the other questions carries 10 marks..

1.

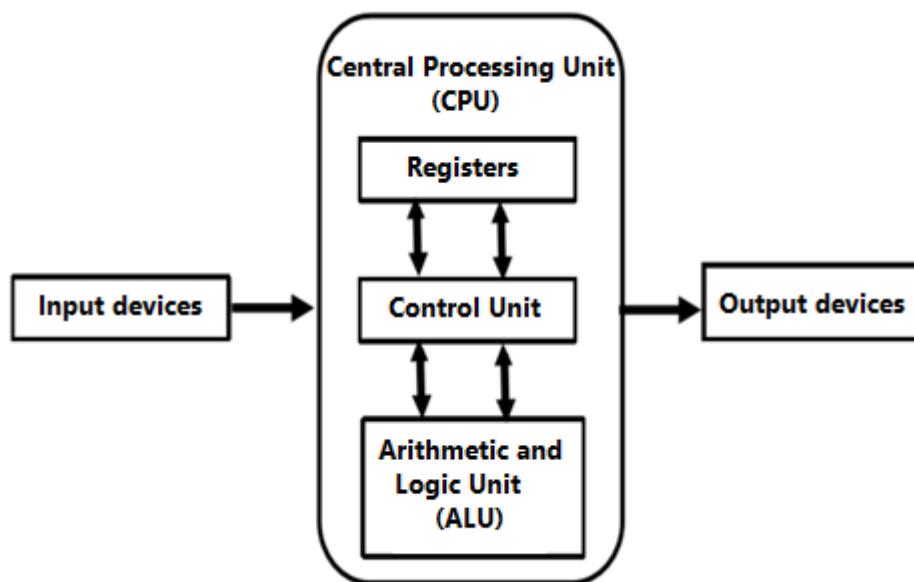
- Decimal numbers can be represented using bits in BCD standard and bits used in ASCII coding system. Use suitable words for the blanks.
- Briefly explain the difference between hub and router.
- Video Conferencing is the process of conducting audio and visual data through computer networks with two or more participants in different locations and mention 02 main advantages of this.
- Convert the hexadecimal number 8EC16 to a binary number. (Enter the relevant steps.)
- A seller sells a package of three items at a price of Rs.300/=. The package contains a plate (P) and a mug (J). The customer can choose either a cup (C) or a dish (D) as the third item. Construct the Boolean expression and the corresponding truth table representing this phenomenon.
- Briefly describe files and folders.
- Complete the table using the following list of words according to the change case facility in the word processing software.

List of words - { Sentence case / Lowercase/ UPPERCASE / Capitalize Each Word / tOGGLEcASE }

	The first letter of a word is simple and the other letters are capital.
	The first letter of a word is capitalized and the other letters are simple.
	The first letter of the sentence is Capital and all other letters are Simple.
	All letters are capitalized.

- State True/False about the difference between a workbook and a worksheet in a spreadsheet software according to the following facts.
 - A workbook contains a large number of worksheets that have at least one worksheet.(.....)
 - Worksheets can be added, deleted and renamed to a workbook. (.....)
 - A workbook cannot be renamed without affecting the name of any worksheet. (.....).
 - You can switch between worksheets in the workbook by clicking on the worksheet tabs at the bottom of the window. (.....)
- According to the classification of software, system software is one of the main parts and mention 02 examples for it.
- A data store consisting of a collection of tables is called a database and name 2 basic elements used to manage it.

2) Below is a diagram containing the computer components.



- i. Mention separately the functions performed by the main components belonging to the central processing unit.
- ii. Mention the work performed by the input devices in the above computer process and give an example for it.
- iii. Mention the work done by the output devices in the above computer process and give an example for it.

3) The Presentations are used to share their views, ideas, and knowledge with a larger group.

- i. Write down 4 characteristics of a good presentation.
- ii. Give 2 examples of an open source presentation software and a commercial presentation software used to present multimedia content in a presentation.
- iii. Slide is the basic part of a presentation software. Write 4 views of there.
- iv. What is the difference between slide transition and slide animation?

4) Following shows a bill related to a purchase made by institute of Helping Sri.

A	B	C	D	E	F	G	H	I
1								
2		lakshani enterprises						
3	anuradhapura road					Phone: 074-0960738		
4	mihinthale					Fax: 025-2266277		
5	50300					E-mail: lakshani.enter@gmail.com		
6								
7	Statement							
8								
9	Statement #: lak00132					Bill To: sera jhoo		
10	Date: October 30, 2022					helping sri		
11	Customer ID: lakcus0512					galle road		
12						bambalapitiya		
13								
14	ITEM NUMBER	ITEM	NUMBER OF UNITS	UNIT PRICE	AMOUNT	DISCOUNT	TOTAL	
15	1	PEN DRIVE(64GB)	9	3570	32130	3213	28917	
16	2	MOTHER BOARD	5	18700	93500	9350	84150	
17	3	KEYBOARD	4	1260	5040	504	4536	
18	4	MOUSE	6	960	5760	576	5184	
19	5	DVD (50) PACK	2	3200	6400	640	5760	
20	6	HP LAPTOP(CORE I3)	5	280000	1400000	140000	1260000	
21	7	MULTIMEDIA PROJECTOR	2	214000	428000	42800	385200	
22	8				0	0	0	
23	9				0	0	0	
24	10				0	0	0	
25	TOTAL BIL							1773747
26	PAYMENT							1800000
27	BALANCE							26253
28								

- Write the formula to be entered in cell F15 to calculate AMOUNT. (This formula should be copied from F15 to F24)
- Write the formula to be entered in cell G15 to calculate DICOOUNT.(This formula should be copied from G15 to G24)
- Write the formula to be entered in cell H15 to calculate TOTAL.(This formula should be copied from H15 to H24)
- Write how you copy the formula from question 1 above from F15 to F24.
- Write the formula to be entered in cell H25 to calculate the total bill.

5) (a) File management is one of the process of hardware management in computer system.

- Write 03 services performed by operating system for file management.
- How can we identify the files that we are saving separately?

(b) Following shows a advertisement for a book fair that processed by word processing software. Figure 1 shows how it looks before formatting and Figure 2 shows how it looks after formatting. Figure 3 shows the toolbar used for formatting.



Figure 1

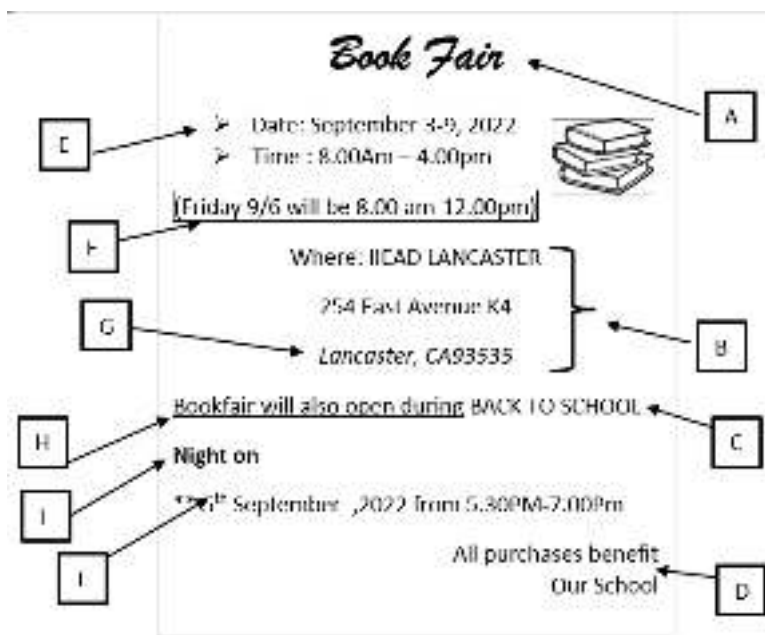
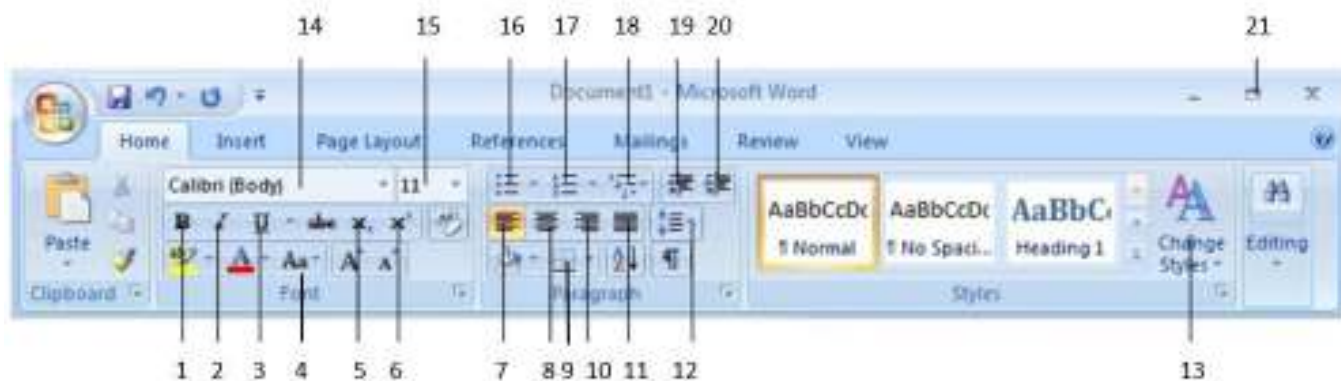


Figure 2

Figure 3



Apply the relevant tool number in front of the English letter finding the tools in figure 3 which are used to formatting a advertisement in figure 1 as to figure 2

6) Consider the following database tables. Answer the given questions from the table

Index No	Group
14690	A
14598	A
14695	B
15108	B
14623	B

Volleyball Table

Index No	Group
15135	A
14598	B
15108	A
14690	B

Cricket Table

Index Ni	Name	Date of birth
14690	Kumari	2003.05.02
15135	Nileema	2003.02.24
14598	Irosha	2003.06.27
15108	Fathima	2003.02.27
14695	Praneesha	2003.12.13
14623	Disna	2003.06.05

Student Table

1. Name a primary key here.
2. What is the relationship between the student table and the cricket table?
3. What table/tables should be updated if the student 15135 leave cricket and plays volleyball?
4. If a new student named Naina was admitted to this school and she started playing cricket, which tables should be updated?
5. Write one disadvantage if a single table was used instead of these three tables in data storage.

7) Briefly explain about the following 03 topics.

- i. Computerized data presentation methods
- ii. Computer ports
- iii. History of Computer
- iv. Use of ICT in various fields



LOL.lk
BookStore

විභාග ඉලක්ක

පහසුවෙන් පසරන්න

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



pesuru
Prabhathana Private Ltd.

Akura Pilot



සමනල
දැනුම

T

සුභර

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

www.LOL.lk වෙබ් අඩවිය වෙත යන්න