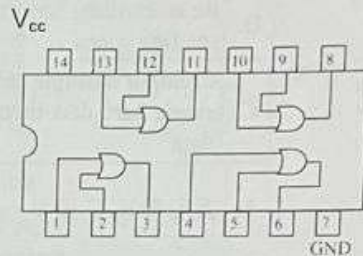


04. Which of the following is the main component that performs the tasks of reading and writing data on the Tracks of a hard disk?
1. Platter 2. Head 3. Spindle 4. Actuator
05. Which list contains devices that are relevant to all three characteristics: "No Moving Parts," "Data capacity up to TB (Terabytes)," and "Data storage using Laser Technology"?
- A - HDD, Blu-ray Disc, DVD-ROM
 B - CD-RW, SSD, HDD
 C - SSD, Blu-ray Disc, USB Flash Drive
1. List A 2. List B 3. List C 4. Non of the above
06. Which option correctly matches the input devices for the following, respectively,
- Evaluating multiple-choice answer sheets in exams
 - Recognizing the numbers on bank cheques
 - Converting printed or handwritten characters in a scanned document into editable text
1. (OMR), (OCR), (MICR) 2. (MICR), (OMR), (OCR)
 3. (OMR), (MICR), (OCR) 4. (OCR), (MICR), (OMR)
07. Consider the following statements regarding a Computer Network. Select the **correct** statement.
- A. All computers connected to a network can share and use expensive hardware, such as a Printer, available on the network
- B. Files and information can be exchanged instantly and easily from one computer to another
- C. Networking allows for easy management of Software and Security Updates from a central point (Server) to all computers
1. A and B are true, while C is false 2. A and C are true, while B is false
 3. B and C are true, while A is false 4. All the above statements are true
08. Which option correctly converts the two decimal values 27 and 42 into Binary and Hexadecimal bases, respectively?
1. 11011_2 and $2A_{16}$ 2. 10101_2 and 32_{16}
 3. 11101_2 and $2B_{16}$ 4. 11011_2 and 32_{16}
09. What is the **correct** Binary representation for the hexadecimal value $3B_{16}$
1. 00111001_2 2. 00101011_2 3. 01001011_2 4. 00111011_2
10. What is the Most Significant Digit (MSD) of the decimal number shown as 0233.41?
1. 0 2. 1 3. 2 4. 5
11. Consider the four numbers as 26_{10} , 31_8 , 11011_2 , $1C_{16}$. Which option correctly orders these four numbers by their value, from the smallest to the largest (Ascending Order)?
1. 26_{10} , 31_8 , $1C_{16}$, 11011_2 2. 11011_2 , 31_8 , 26_{10} , $1C_{16}$
 3. 11011_2 , 26_{10} , 31_8 , $1C_{16}$ 4. 31_8 , 26_{10} , 11011_2 , $1C_{16}$

12. A computer database shows a capacity of 8192MB. Which of the following expressions is NOT equal to this capacity?

1. 8GB 2. 2^{13} KB 3. 4×2^{11} MB 4. 2^{33} Bytes

13. The figure below shows the internal diagram of an Integrated Circuit (IC) containing four OR gates and it shows point numbers, VCC and GND connection. Which of the following statements based on this diagram is CORRECT?



1. Pins 14 and 7 are input pins.
2. Every logic gate has two input pins and one output pin.
3. When 0 is input to Pin 4 and 0 is input to Pin 5, Pin 6 outputs 1.
4. When 1 is input to Pin 1 and 1 is input to Pin 2, Pin 3 outputs 0

14. Which logic gate diagram corresponds to the following Truth Table?

- 1) 2) 3) 4)

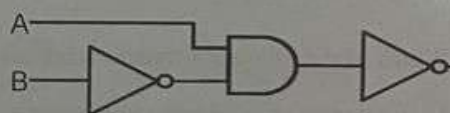
A	B	C
0	0	1
0	1	0
1	0	0
1	1	0

15. Which of the following gates outputs display the $\overline{X + X}$ when input x ?

- 1) 2) 3) 4)

16. Which is the corresponding input A and B to give output 0 ?

- 1) 0, 0
- 2) 0, 1
- 3) 1, 0
- 4) 1, 1



17. When creating a Truth Table for the Boolean expression $\bar{x} \cdot (x+y)$, which of the following intermediate steps (Columns) are required to reach the final result?

1. $x, y, \bar{x}, x+y, \bar{x} \cdot (x+y)$ 2. $x, y, \bar{y}, \bar{x} \cdot (x+y), x+y$
 3. $x, y, x+y, \bar{x} \cdot (x+y)$ 4. $x, y, x \cdot y, \bar{x} \cdot (x+y), \bar{x}$

18. Which software types, respectively, correspond to the following two tasks?

- Controlling the computer's Hardware and providing a platform for other software
- Performing a user's specific task, such as creating documents, editing photos, or browsing websites

1. (Utility Software), (System Software)
2. (Application Software), (Application Software)
3. (System Software), (Application Software)
4. (System Software), (System Software)

19. Select the answer that correctly matches the tasks below with their corresponding processes.

Task		Process	
A.	Preparing the disk for data storage, installing a new File System, and creating Tracks & Sectors.	i.	Defragmentation
B.	Reassembling scattered data fragments to improve the disk's reading speed	ii.	Partitioning
C.	Creating multiple independently operating sections within a single hard disk then user could install several OS and store data	iii.	Formatting

1. A-i, B-ii, C-iii 2. A-iii, B-i, C-ii 3. A-ii, B-i, C-iii 4. A-iii, B-ii, C-i

20. Which of the following four operating systems is **NOT** a major operating system designed for mobile phones?

1. iOS 2. Android 3. MacOS 4. Windows Phone

21. Select the **INCORRECT** statement regarding the function and classification of computer software

1. System Software (e.g., Operating System) is the type of software that the user directly interacts with to perform their tasks
2. Application Software (e.g., MS Word) depends on System Software, and it does not access hardware or manage resources
3. System Software is absolutely necessary for a computer to boot up and run
4. Language Translators (Compilers/Interpreters) are tools that belong to the System Software category.

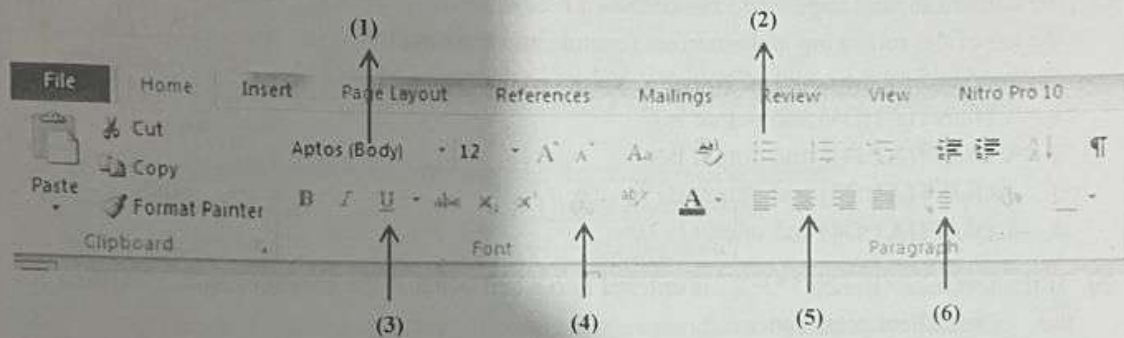
22. Which of the following statements related to computer software is **INCORRECT**?

1. Examples of Application Software include Spreadsheets, Word Processors, and web browsers
2. Utility Software is software that helps maintain and optimize the performance of the computer's hardware and operating system
3. Both Disk Defragmenters and Antivirus software are Utility Software classified under the System Software category.
4. Application Software can run on a computer even without System Software

23. Assume that the values 10 in (A1) and 20 in (A2) are entered into a Spreadsheet application. Which of the following two formulas can both be used to calculate the Average of these two values?

1. $=(A1+A2)/2$ and $=AVERAGE(A1,A2)$
2. $=SUM(A1:A2)/2$ and $=(A1+A2)/2$
3. $=AVERAGE(A1:A2)$ and $=SUM(A1,A2)/2$
4. All 1,2 and 3

24. Which sequence correctly names the tools numbered from 1 to 6?



1. Font face, bullet list, underline, WordArt, center align, line spacing
2. Font face, bullet list, underline, WordArt, left align, line spacing
3. Font face, numbering list, underline, WordArt, left align, line spacing
4. Font face, bullet list, underline, Grow font, left align, line spacing

25. Select the **CORRECT** statement(s) regarding inserting Tables in a Word Processor

- A. When inserting a table, the Number of Rows is determined automatically based on the number of columns
- B. The Insert tab or menu is typically used to insert a table
- C. Once a table is inserted, its dimensions (number of columns and rows) can be edited later

1. A and B are true, while C is false.
2. B and C are true, while A is false
3. A and C are true, while B is false.
4. A, B, and C are all true

26. Which of the following is the correct key combination (Keyboard Shortcuts) to use for these two tasks, respectively?

- A. Moving the Cursor to the beginning of the next page
 - B. Moving the Cursor to the beginning of the first page (the start of the document)
1. Home and End
 2. Page Down and Home
 3. Ctrl + Page Up and Ctrl + Home
 4. Ctrl + Page Down and Ctrl + Home

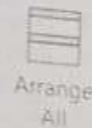
27. Select the four most suitable types of Application for the four tasks, respectively:

- Calculating Grades and Averages.
 - Managing employee information and salary details with relationships
 - Creating Slides with Visual Aids for an audience
 - Preparing a Newsletter with correct formatting using Text and Images
1. (Word Processor), (Presentation), (Spreadsheet), (Database)
 2. (Spreadsheet), (Database), (Presentation), (Word Processor)
 3. (Database), (Spreadsheet), (Word Processor), (Presentation)
 4. (Spreadsheet), (Word Processor), (Database), (Presentation)

28. The content in the range A1 to D4 is shown below.
Which of the following is the correct formula and the result obtained to find the count of Numeric Values in the range A1 to D4?
1. =COUNT(A1:D4) and output is 6
 2. =COUNT(A1:D4) and output is 11
 3. =COUNT(A1:D4) and output is 9
 4. =COUNT(A1:D4) and output is 10

	A	B	C	D
1	10	Name	5	200
2	35	40		15
3		25	30	0
4	data	45	50	

29. If the formula $=10+20/5*3-2$ is entered into a cell, what is the **correct** result according to the spreadsheet precedence?
1. 16
 2. 20
 3. 22
 4. 28
30. What is the main function performed by using this icon?
1. Automatically adjusting the image wrap around the selected text.
 2. Automatically drawing a Chart based on the selected data.
 3. Simultaneously rearranging all open documents or workbooks so that their windows are tiled on the screen.
 4. Formatting all pages of the document into the same format before printing.



31. The following formula is entered into cell A1 of a spreadsheet application: $=BS5+SD6$
If this formula is copied from cell A1 to cell C4, which of the following statements is **correct** regarding the new formula in cell C4 and its cell references?
1. B\$5 cell changed as D\$5, SD6 cell changed as SF9
 2. B\$5 cell changed as D\$5, SD6 cell changed as SD9
 3. B\$5 cell changed as C\$5, SD6 cell changed as SD7
 4. B\$5 cell changed as D\$5, SD6 cell changed as SD9

32. When using presentation software, consider the four bars in the software interface below

Bar	Information Typically Contained
A. Title Bar	i. The name of the presentation file and the name of the software.
B. Status Bar	ii. Icons for quick commands like Save, Undo, Redo.
C. Ribbon	iii. Command tabs like Home, Insert, Design.
D. Quick Access Toolbar	iv. The number of the currently viewed slide and the total number of slides.

Choose the answer that correctly matches the bars with their content.

1. A-i, B-ii, C-iii, D-iv
 2. A-i, B-iv, C-iii, D-ii
 3. A-iv, B-i, C-ii, D-iii
 4. A-ii, B-iii, C-iv, D-i
33. Consider the following statements about Slide Animation and Slide Transition in presentation software

- A - Slide Transition controls how an Object (e.g., a picture or text) appears, moves, or disappears within a single slide during a presentation.
- B - Slide Animation controls how a Slide changes on the screen during a Presentation
- C - Only one Slide Transition can be applied to each slide, but multiple Slide Animations can be applied to a single slide

Which statement(s) above is/are **TRUE**?

1. A and B only.
2. B and C only.
3. A and C only.
4. C only.

34. While displaying slides in a Slide Show mode in presentation software, what are the correct keyboard shortcuts to use for the following two tasks, respectively?

- A. Moving immediately from the currently displayed slide to the First Slide of the presentation.
 B. Instantly making the currently displayed screen a Black Screen.
1. Ctrl+Home and End
 2. Ctrl+P and Ctrl+B
 3. Home and Ctrl+B
 4. Home and B key

35. Which answer correctly matches the following features and descriptions

Feature	Description
A. Data Consistency	i. Storing the same data multiple times in different places in the database.
B. Data Redundancy	ii. Ensuring that the data in the database is valid, correct, and relevant.
C. Data Integrity	iii. When data is changed in one place in the database, the data is instantly and correctly updated in all relevant locations.

1. A-1, B-2, C-3
2. A-2, B-3, C-1
3. A-3, B-1, C-2
4. A-3, B-2, C-1

The followings are two tables as Student_Table and Course_Enrollment_Table from a database.

Enrollment_ID	Course_Code	Student_ID	Grade
CE101	CSC1205	S003	A
CE102	ENG1101	S001	B+
CE103	CSC1205	S005	A-
CE104	PHY1003	S004	A

Student_ID	Name	Faculty	Date_Of_Birth
S001	Nimal Karanaratne	Science	1999/05/15
S002	Vihanga Perera	Arts	2000/01/20
S003	Sithumi Bandara	Engineering	2001/11/01
S004	Thimali Dias	Science	1998/08/10
S005	Ashen Silva	Arts	2000/03/25

36. Which field is most suitable as the **Primary Key** for the Student_Table?

1. Name
2. Faculty
3. Student_ID
4. Date_Of_Birth

37. Which of the following is an example of a **Foreign Key** in the database?

1. Student_ID - Student_Table
2. Course_Code - Course_Enrollment_Table
3. Student_ID - Course_Enrollment_Table
4. Enrollment_ID - Course_Enrollment_Table

38. What are the **number of fields** and the **number of records** in the Course_Enrollment_Table, respectively?

1. 3, 4
2. 5, 4
3. 4, 4
4. 4, 5

39. Which of the following instances involves an update of data only, without a structural change to the existing database?

1. Inserting a new 'Faculty' field into the Student_Table.
2. Changing the Name of the student with Student_ID "S002" from "Vihanga Perera" to "Vihanga Liyanage".
3. Removing the Enrollment_ID field from the Course_Enrollment_Table.
4. Changing the Student_ID field in the Course_Enrollment_Table as a Primary Key

40. What is typically done by using the Back Space key?

1. Deleting the character to the right of the cursor.
2. Moving the page down.
3. Deleting the character to the left of the cursor.
4. Inserting a space.

