

Q1 What are the four fundamental parts of a computer? Explain it with the help of diagram.

The four fundamental parts of a computer are the Input Unit, Central Processing Unit (CPU), Memory Unit, and Output Unit. These components work together to process and manage data.

Here is a simple block diagram to illustrate the basic organization of a computer system:

Input Unit $\rightarrow$ CPU $\rightarrow$ Memory Unit $\rightarrow$ Output Unit

The Input Unit receives data and instructions from the user, which are then processed by the CPU. The CPU performs arithmetic and logical operations on the data and stores the results in the memory unit. The memory unit temporarily stores the data for the CPU to access. Finally, the output unit displays the processed data to the user.

Here are the functions of each unit in more detail.

Input Unit

- Receives data and instructions from the user
- Converts data into the CPU for processing
- Transmits data to the CPU for processing

Central Processing Unit (CPU)

- Performs arithmetic and logical operations on data

- Stores data and instructions in the memory unit
- Controls the flow of data between units,

Memory Unit.

- Temporarily stores data and instructions for the CPU
- Provides data to the CPU for processing
- Stores results of processing for output

Output Unit.

- Display processed data to the user
- Converts data from machine-readable form to human-readable form

Ques 2 Discuss about the Classification of Computer based on Size & Capacity?

Ans Size - There are four types in the Classification of the computer by Size - Supercomputer, Mainframe computer, minicomputer & micro computer

Capacity - The Processing speed and Computer Depending upon the components used they are classified into four groups microcomputer, minicomputer, mainframe computer & Supercomputer.

Ques 3 What is the meaning of computer generation? how many computer generations are defined? what technology were/are used?

Ans Initially, the generation term was used to distinguish between varying hardware technology. Now a days generation include both hardware & software which together make up an entire computer system. There are five computer generations known till date.

Ques 4 Differentiate between volatile & non-volatile memories?

Ans Volatile - Volatile memory is temporary storage that only retains data for a short period of time, & is turned off.

* Non-Volatile - Non-volatile memory is permanent storage that retains data use when the power is turned off.

~~Q1~~ Differentiate between Volatile & Non-Volatile Memories.

Q5 Distinguish among System Software, application software and open source software on the basis of their features.

System software

- Manages computer hardware and provides a platform for running applications
- Examples: operating systems (OS), Device Drivers, Utilities
- Features:
 - controls and coordinates computer hardware
 - Provides a platform for running application
 - Manages system resources

Application software

- Performs specific tasks or functions for the user
- Examples: Microsoft Office, Google Chrome, Adobe Photoshop
- Features
 - Designed to perform specific tasks or functions
 - Runs on top of system software

Open Source Software

- Software with source code available for modification and distribution
- Examples: Linux, Apache, Mozilla Firefox

Ques 6) a) Create a file in MS-word to insert a paragraph about yourself & save it with file name "yourself" Describe all steps involved in it.

➤ 1 Create a document in MS-word & how do you save it.

- 1) To open Microsoft word, click on the word icon ('w') on the toolbar or desktop.
- 2) An open (and blank) word document will open on the screen.
- 3) Enter Document Data.
- 4) When document is finished, click on "File" on the Standard toolbar at the top of screen.
- 5) click on "Save as".

Ques 6) b) write steps regarding followings.
* To change the font style.

1. Click Format > Text Style.
2. In the Item to change list, click all, then select the font size, or colour you want for all text in the current view.
- 3 Repeat this process for other view.

★ To change the font size.

1) Select the text or cells with text you want to change. To select all text in a word document, Press $Ctrl + A$.

2) on the Home tab, click the font size in the font size box.

★ To change the font colour.

on the Home tab, in the font group, choose the arrow, next to font colour & then select a colour.

Q7 Create a file in ms-word for the following document and save it with file name ms-word. Describe all steps involved in it?

Ans Here are the steps to create a file in ms-word and save it with the file name ms-word.

Step 1: open ms-word.

- Click on the Start button (Windows) or Applications folder (mac) and select microsoft word from the list of available applications.

Step 2: Create a New Document

- Click on the 'file' tab and select, 'New' to create a new document.

Step 3 - Type the Document Content

- Type the content of your document

Step 4 - Save the Document

Click on the 'file' tab and select 'Save As'

Click on "Save" to save the document

Q8 Create a file in MS-Word for the following document and save it with file name 'equations'. Describe all steps involved in it.

Here are the steps to create a file in MS-Word and save it with the file name 'equations'.

Step 1: Open MS-Word

- Click on the Start button (Windows) or Applications folder (Mac) and select Microsoft Word from the list of available applications.
- Alternatively, you can also search for "Microsoft Word" in the search bar and click on the result.

Step 2: Create a New Document

- Once MS-Word is open, click on the "File" tab in the top-left corner of the screen.
- Click on "New" to create a new document.

Step 3: Type your Document Content

- Type the content of your document, including any equations you want to include.
- You can use the built-in ~~equation~~ editor in MS-Word to create equations.

Step 4: Save the Document

- Click on "Save As" to save the document.
- In the "Save As" dialog box, enter the file name 'equations' in the file name field.

Click on "Save" to save the document.

Step 5: Verify the file

- Go to the location where you saved the file and verify that the file 'equations.docx' exists.
- You can open the file to ensure that it contains the content you typed.

Q9 Create a file in MS-Word that convert existing highlight text to table as shown below and save it as file name 'text_to_table'. Describe all steps involved in it. ~~What is the result?~~

Here are the steps to create a file in MS-Word, convert existing highlighted text to a table, and save it as 'text_to_table'.

Step 1: Open MS-Word and create a New Document

- Open MS-Word and create a new document by clicking on "File" > "New".

Step 2: Type and Highlight the Text

- Type the text you want to convert to a table, and highlight it using the "Home" tab > "Highlight tool".

Step 3: Convert Highlighted Text to Table

- Select the highlighted text, then go to the "Insert" tab > "Table" > "Convert Text to Table".
- In the "Convert Text to Table" dialog box, select the option to convert the text to a table.
- Click "OK" to convert the text to a table.

Ques → Create a file in MS-Word to insert a table in the document. Describe all steps involved in it. ~~Start answer~~

Ans → Here are the steps to create a file in MS-Word and insert a table in the Document.

Step 1: Create a new document in MS-Word.

- Open MS-Word on your computer.
- Click on the "File" tab in the top left corner of the screen.
- Select 'New' from the drop-down menu.
- Choose a template or select "Blank" Document to create a new document from scratch.
- Click "Create" to open the new document.

Step 2: Insert a table.

- Place your cursor where you want to insert the table in the document.
- Click on the "Insert" tab in the top navigation bar.
- Click on the "Table" button in the Illustrations bar.

- Select the number of rows and columns you want for your table from the drop-down menu.
- Click "OK" to insert the table into your document

Q11 I can't create files directly, but I can guide you on how to create a worksheet in Excel and save it as "book1." Here's how you can do it:

1. Open Microsoft Excel.
2. Create a new workbook.
3. Add Data:
 - In cell A1, type "Item."
 - In cell B1, type "Quantity"
 - In cell C1, type "Price."

4. Fill in sample data

- A2: Apple
- B2: "10"
- C2: "\$2.00"
- A3: "Banana"
- B3: "5"
- C3: "\$0.50"

5. Save the workbook

- Click on File > "Save As"
- Choose the location you want to save in
- In the "File Name" field, type "book1."
- Click "Save".

Ques 12 The sum of the marks using auto sum in a range of cells.

- ★ Select to a cell next to the numbers you want to sum click auto sum on the home tab, Press enter.
- ★ average of the marks in a range of cell - (C2:C11).
- ★ Returns an average of values from a selected range.
- ★ Highest marks in a range of cells (C2:C11)

In a cell, type = max.

13) Describe the following terms in the worksheet
★ absolute reference and relative reference
in formula cell address.

Ans → Relative reference change when a formula is copied to another cell - absolute reference, on the other hand, remain constant no matter where they are copied -

14) what tools are available to customize our power point presentation?

Ans → Smart art are tools, chart tools, table tools & video tools.

15) write steps for creation of a set of power point slides that demonstrates your skill to use the tools of power point.

★ Title Slide of Gullet list

A series of item with a heading broken up by dotted points

★ Inserting excel sheet.

on the Home tab, in the Cell group, click Insert, then click Insert Sheet

Ques 16 What is the difference between machine language & High level language?

Ans - High-level code is designed to be read by human. Programmed machine code is to be read / executed by the computer.

Ques 17 - Discuss about different data types in C Programming language

Ans C provides several built-in data types such as integer (int), character floating-point (float), & double-precision floating-point.

Ques 18 Find the output of the following expression.

(a) $x = 20 / 5 * 2 + 30 - 5$

Ques 19 - Describe the syntax of the following statement.

a) If - else statement

If (test - expression) True block of statement else false block of statement

b) for loop.

[initial] [Increment] [limit]

c) while loop.

while (condition || code to be executed)

d) do - while loop.

Do (|| the body of the loop)

while (test expression)

Q20 Find the output of the following Program Segments a) b)

I apologize again, but it seems like you didn't provide the program segments for me to analyze. I understand that you're asking me to find the output of the program segments, but without the actual code, I won't be able to provide an accurate ~~and~~ answer.

To assist you, I need the code for a) and b) in a specific programming language, such as Python, Java, C++, etc. Please paste the code, and I'll be happy to help you find the output and provide a ~~statement~~

Here's an example of how you ~~can~~ can format the code:

1 a) [insert code for a) here]

2 b) [insert code for b) here]

Once I receive the code, I'll analyze it step by step and provide the output with a clear explanation.