

Ans Explain it with
A C
the
Part 100/73

FUNDAMENTALS OF IT AND PROGRAMMING

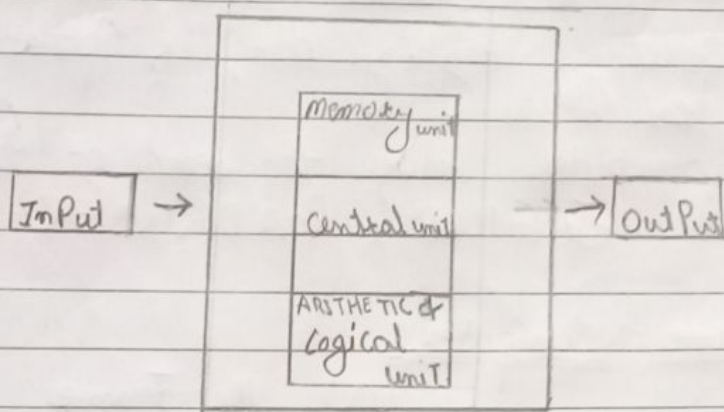
SUBMITTED BY VIKAS KATAL

SUBMITTED TO Rohit Sir

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

Ans A computer has four main components: Input unit, the central processing unit or C.P.U., the Primary memory, output units. Input unit: The devices to unit information - Such as a Keyboard, and mouse. C.P.U. - The C.P.U. is further broken up into ALU; Control unit; and instruction unit.

Components of computer.



Input: In computing, an input device is a piece of equipment used to provide data and control signal to an information processing system such as a computer. or information. Eg: Mouse, Keyboard etc.

Output: In computing an output device is a piece of equipment used to get result on the sequence of instruction.

(Q2) Discuss about the classification of computer based on size capacity.

Ans Computer are classified in four parts based on

on size and capacity which are given below:

(i) Super computers

- (a) Super computers are most powerful and physically the largest in size.
- (b) These system are designed to process huge amount of data.
- (c) The fastest Super computer can perform over trillion of calculations in a second.
- (d) Because of their extraordinary speed accuracy and processing power. Super computers are well suited for solving highly complex problem and huge amount of calculations.
- (e) Super computer have thousands of processors.
- (f) Example: JAGUAR, ROADRUNNER etc.

(ii) Mainframe Computer:

- (a) Mainframe computers are very large often filling an entire room and can process thousands and million instructions per second.
- (b) In a mainframe computer environment - users are connect to the mainframe through many terminals wired to mainframe.
- (c) Mainframe are capable for supporting hundred and thousand of users simultaneously.
- (d) Some of function performed by a mainframe include Flight Scheduling reservations and ticketing for an airline etc.
- (e) Example: IBM mainframe Z13 and etc.

(iii) Mini computer:

- (a) Mini computer are much smaller than mainframes.
- (b) These computer are less expensive.
- (c) Sometimes it referred to as midrange server or midrange computers.
- (d) They are typically large, more powerful and more powerful than desktop computers.
- (e) User connect to the server through a network by using desktop computers.
- (f) Midrange computers are usually used by small and medium size business as their server.
- (g) Example: Apple, iPad, CDC 1604

(iv) Micro computers:

- (a) Micro computers are the most frequently used type of computer.
 - (b) It is also known as personal computer (PC)
 - (c) A micro computer is a smaller computer system designed to be used by one person at a time.
- (Q3) What is the meaning of computer generations?
How many computer generation are defined?
What technologies were/are used?

Ans: Generation in computer terminology is a change in technology a computer is now being used.
There are four generations are defined.

- (a) In first generation which starts from 1940 system used vacuum tubes technology.
- (b) Second generations of computers which starts from 1956 used Transistors technology.

(C) Third generations of computers which starts from 1964 used IC (Integrated circuit) technology.

(d) Fourth generations of computers which starts from 1971 used technology of microprocessors.

(Q4) Differentiate between Volatile & Non-volatile memories.

Volatile memory	Non-volatile memory
1. Data is present till power supply is present	1. Data remains even after power supply is not present.
2. Volatile memory is not permanent	2. Non-volatile memory is permanent.
3 Example. RAM Memory	3 Rom memory

(Q5) Distinguish among System Software, application Software and open Source Software on the basis of their features.

Ans. System Software : System Software automatically starts running once the system is turned on and stops when system is shut down.

Application Software : Application Software runs as the when the user request it.

Application Software is used specific and it is not needed to run the system on.

OPEN SOURCE SOFTWARE : open Source Software is provided under a license that allows users to access, change and improve its source code for their purpose.

The main benefits of Software with a publication available source code are:

- Flexibility
- Stability
- Security and reliability
- Better Support
- Possible Savings

(Q.N.6) Create a file in MS-word to insert a paragraph about your-self and save it with file name "yourself" Describe all steps involved in it?

Ans Creating a file in MS-word

Step 1 ⇒ open MS word.

Step 2 ⇒ Go to file tab and click new.

Step 3 ⇒ Select online template or Select blank template.

Step 4 ⇒ Place the cursor and type text on the sheet.

Step 5 ⇒ Insert picture table from insert tab.

Step 6 ⇒ Go to file save select -rename and rename as "yourself"

Step 7 ⇒ select save

(B) Write steps regarding following:

(a) To Change font style:

Ans Select the text you want to modify

- Click on font style box on home tab
- The font style drop down menu appears.
- Move your cursor over the various font style.
- Left click the font style you want to use.
- Then font style will change in the document.

(B) To change font size:

- Ans Select the Home tab in Ms word
- Select font size from drop down menu.
 - Select desired font.

(C) To change font colour:

- Select the text you want to modify.
- Click on the font colour box on the Home tab. The font colour menu appears.
- Move your cursor over the various font colours.
- Left click the font colour you want to use.
- Then font colour will change.

(D) To highlight (in yellow) in line that read need to get IMS address:

Ans Select the text.

- Click on the text highlight colour in found group on the Home tab.
- Various colour will appear.
- Move your cursor over the various.
- Click the colour you want to use.
- Then text highlight colour will change in the document.

(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

MS-Word

Ms Word is a Software created by Microsoft. It is a popular commercial word processor. It is widely used program in the suite uses of Microsoft.

It help in editing, formatting and creating new notes.

It help to make professional write up the editing and the writing documents.

(Q8) Create a file in ms word for the following document and save it with file name 'creation' describe all step involved in it?

Ans:- open word are or, word is already open select file.
> New

In the Search for online template box enter a search word like letter, resume or invoice or select a category under the search box like Business, personal or education.

Click a template to see a preview.
Select Create.

- (1) Open the Ms word document
- (2) Type the equation in it
- (3) click file in the top left hand corner of the screen.

From the menu, choose Save.
A save dialogue box will come up.
Once you have typed in the name of your document, click Save.

(Q9) Create a file in Ms-words that convert existing highlight text to table as shown and save it as file name "text to table". Describe all steps involved in it?

Ans First we have to select that text than we have to select insert tab.

- Then click on the table. So the command box will appear.
- Then we have to set no of columns.
- Now we have to click the OK to convert.

(Q10) Create a file in Ms-words to insert a table in the document. Describe all steps involved in it?

Ans Open a blank word document.

- In the top ribbon press - insert click on the table button.
- Either use the diagram to select the nos of column, rows need or click in table and a dialog box will appear you can specify the number of column. and select blank insert.
- Table insert table open choose a customize on click on it.

(Q11) Create a following worksheet in Ms excel and save it with name 'book 1'.

- 1) Ans (a) Select a cell with in year data
- (b) Select Home > Format as table
- (c) choose a style for year table.

- (D) In the format as table dialog box set your cell range.
- (E) Mark if your table headers.
- (F) Select "ok"

Q13A Describe various steps involved in the following?

Q. To modify column width of a worksheet?

Ans Select a column or range of a column on the Home tab, in the Cell group select format column width.

- Type a column width and select ok.

Q. To modify the row height of a worksheet?

Ans Select a row that you want to change on the Home tab, in the Cell group select format.

- Under Cell Size click row height.
- In the row height box, type the value that you want and then click ok.

Q. To delete rows of a worksheet?

Ans Select any cell which is in the row, and then go to Home > insert > sheet rows or delete sheet.

Q. To delete column of a worksheet?

Ans Select any which is in the column, and then go to Home > insert > sheet column or delete sheet column.

(Q13B) Describe following terms in the worksheet

Q. Absolute reference and relative reference in formula

Ans Relative and absolute reference be have differently when copied and filed to other cell. Relative Reference change when a formula which copied to another cell absolute reference on the other hand, remain constant, no matter when their copied.

Q Cell address.

Ans: cell address is a combination of a column, letter and a row no. that identify a cell on a work sheet.

(Q14a) What tools are available to customize power point presentation?

Ans visme, Saikudeck, ~~the~~ titcherific, Conva Slide Camp, Micro Soft events, town town video Slide lergj.

(Q14b) Write the steps for the following action for action of Power point Presentation.

Ans: 1) open the micro-Soft power point

2) Go to the file and top of the screen & click new says new presentation.

3) In the new presentation dialoy box click on the zoom design template.

4) Select design template by click on the template you will like.

5) A Slide only oute change the slide alayate you can make change the slide alayate go to be top of the screen and click main formate.

- (6) Adding picture you may add picture by clicking on the box that says click to an content Just choose the photograph & click insert
- (7) Adding text enter your by clicking & by typing in box titled or click to add a title.
- (8) Resizing picture you may change the size of picture by clicking on the picture the help of mouse pointer along on down the picture size you want.
- (9) Enter all the change. Now it's done

Ques:- Write steps for creation of a set of Power point Slides that demonstrates your skill to use the tools of Power point. It should include the following things.

Ø Title Slide & bullet list.

Ans On the left side of the Powerpoint window in the pane that contains the outline and slide thumbnail that you want to and bulleted or numbered text, to on the slide, select the lines of text in text place holder or table that you want to add bullets on numbering.

Ø Inserting Excel Sheet

Ans Select the slide that you want to insert on

excel Spread Sheet into Go to insert, Table and then choose excel Sheet. To add text to a table cell, click the cell and enter your text after you enter your text. Click out side the table.

Q Clip art and text.

Ans Click the insert tab. In this transition group click on the picture button. Insert dialogue box appears with a click. Select the desired picture which will be added to the slide. Click and drag the picture to move it to desired location.

(Q16) What is the difference between Machine level language and High level language?

Machine level	High level language
(1) It is also known as low level language.	(1) It is also known as programmer friendly language.
(2) It is difficult to understand.	(2) It is easy to understand.
(3) It is maintenance complex.	(3) It is simple in terms of maintenance.

(Q No 17) Discuss about different data types of C programming language

Ans C is general purpose procedural computer programming language. Supporting structured programming lexical variable scope and recursion with a static type system. By design C provides constructs that map efficiently to typical machine instructions. It has found lasting use in applications previously coded in assembly language. Such applications include operating systems and various application software for computer architecture that range from supercomputer to PCs and embedded systems.

(Q No 18) Find the output of the following expressions

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

Sol $4 * 2 + 30 - 5$

$\Rightarrow 8 + 30 - 5$

$\Rightarrow 38 - 5$

$\Rightarrow 33$

(b) $Y = 30 - (40 / 10 + 6) + 10$

(Sol.) $30 - 10 + 10$

$\Rightarrow 20 + 10$

$\Rightarrow 30$

(c) $Z = 4 * 2 / 10 - 20 + 10$

Sol. $80 / 10 - 2 + 10$

$\Rightarrow 8 - 2 + 10$

$\Rightarrow 6 + 10$

$\Rightarrow 16$

(19) Describe the syntax of the following statement

(a) if - else statement
Sol. if (condition)

{ True Statement

} else {

{ False Statement
}

(B) For loop

Sol. For (Initial 'text' updates.
(condition, expression, expression)

{ Body for loop;

}

(C) While loop.

Sl while (condition)

{ statement executed

}

Qd) Do while loop
Sol - do .

```
{ Statement
}
```

while (condition)

```
{ Statement . condition
}
```

(Q20) Find the Out Put of the program following program segments.

Soln) For i in range : i = 1
⇒ CIMS GHAZIABAD

(Q21) IAS GHAZIABAD
IMS GHAZIABAD.

3 largest number is 100 .