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COURSE CODE - CCA 101

COURSE NAME - Fundamentals of IT & programming

ASSIGNMENT-I

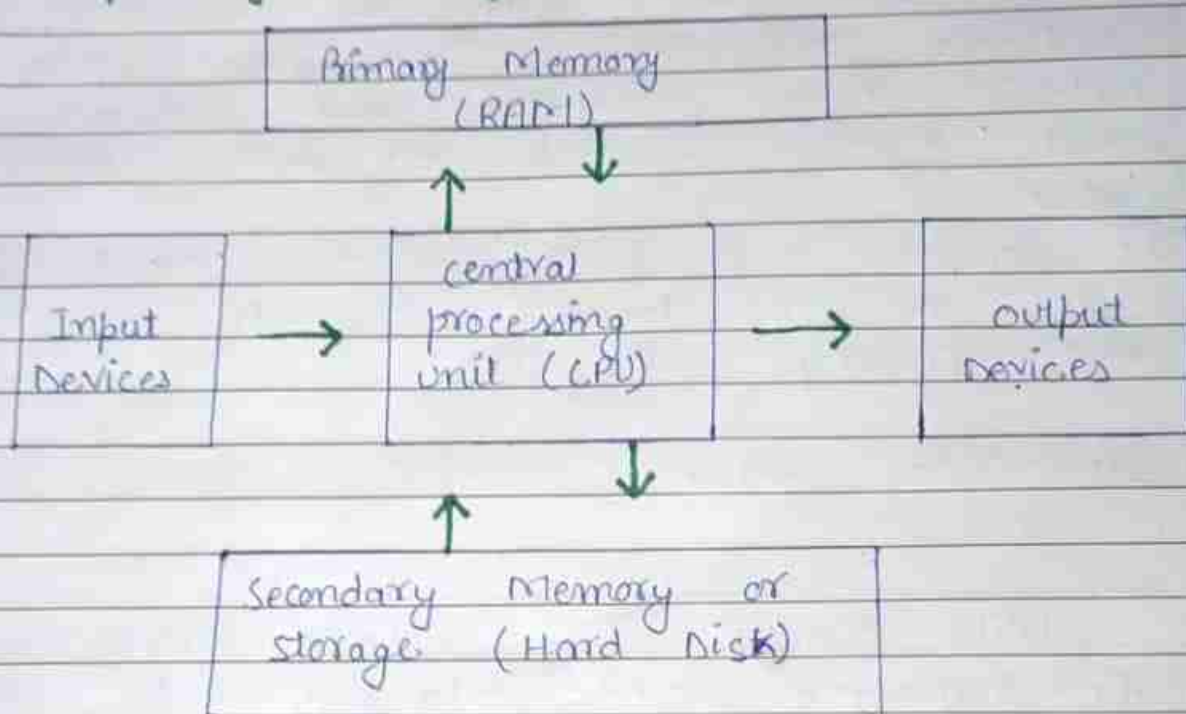
PREMIUM

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Q:1- 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 CPU, the primary memory, and output units.



Q:2- Discuss about the classification of computer based on size and capacity.

Ans Computers classified on the basis of size and capacity are:

Super computers, Mainframe computer, Mini computer, Micro computer, Desktop computer, Pocket computer.

Q:3- What is the meaning of Computer generation?
How many computer generation are defined?
What technologies were / are used.

Ans Generation in computer terminology is a change in technology in a computer which was being used. Initially, the generation term was used to distinguish between varying hardware technologies. Nowadays, generation includes both hardware and software, in which together makeup an entire computer system.

➤ The computer of first generation used Vacuum tubes as the basic components for memory and circuitry for CPU.

Q:4- Differentiate between volatile and non-volatile memories.

Ans	volatile Memory	Non-volatile memory
➤	Data temporarily stored in volatile memory.	Data permanently stored in non-volatile memory.
➤	It has less storage capacity.	It has more storage capacity.
➤	Data can be easily transferred.	Data can't be easily transferred.
➤	Process can read and write.	Process can only read.
➤	Example : RAM and cache Memory.	Example : ROM and HDD.

Q:- Distinguish among system software, application software and open source software on the basis of their features.

Ans System software is meant to manage the system resources. It serves as the platform to run application software. Application software helps perform a specific set of functions for which they have been designed.

Application software is developed in a high-level language such as java, C++.

Open source software is different. Its authors make its source code available to others who would like to view that code, copy it, learn from it, alter it, or share it.

Q:- Write steps regarding followings:

- > To change the font style.
- > To change the font size.
- > To change the font colour.

i) Select the text you want to modify.

Select the home tab and locate the font group. Font style menu appears.

With a left click select the desired font style.

ii) Select the text, in home tab locate the font group. In font group click the drop-down arrow next to font size box, font size menu appears, select the desired font size with a left click.

ii) Ans Select the text that you want to change. on the home tab. in the font group, choose the arrow next to font color, and then select a colour.

Q:7- create a file in MS-Word for the following documents and save it with file name 'ms-word'. Describe all steps involved in it.

Ans MS WORD

MS word is a widely used commercial word processor developed by Microsoft.

MS word is application software, which is capable of

- creating,
- editing,
- saving,
- printing any type of document.

click the file tab to access backstage view, choose export then select change file type.

Select a file type, then click save as then a dialog box will appear.

Select the location where you want to export the document enter a file name. (MS-word) then click save.

Q:8- create a file in MS-Word for the following document and save it with file name 'equation'. Describe all steps involved in it.

Equations

$$X_2 + Y_5 = 30$$

$$Z^3 + Q^4 = 50$$

$$A_2 + B^8 = X_2 + Y^8$$

Ans: 1. open word and select file > new.
2. In the search for online templates box, enter a search word like, letters, resume or invoice or select a category under the search bar like Grammar, Personal or education click the template to set a preview.

Select create, select a file type then click save. The table and paragraph marks will produce a table with 3 columns and 5 + 2 rows.

Enter a file name (equation) + click save.

Q:9- Create a file in MS-Word that convert existing highlighted text to table as shown below and save it as file name 'text to table'. Describe all steps involved in

Select the text you want to convert.

Select the insert tab.

click on table command. A dialog box appear.

click on convert Text to table, a new dialog box appears here set number of columns.

click on ok finally selected text convert in a table.

Ans > Convert text into a table :

- i) Insert separator character - such as common or tabs to indicate where divided to text into table columns.
- ii) Use paragraph marks to indicate where to divide word to being a new table row. In this examples the tabs & paragraph marks will produce a table with columns and (1) rows.
- iii) Select the text that you want to convert and click Insert - table -> convert text to table. ^{re}
- iv) In the convert text to table box, choose the option you want.
Under table size make sure number matches the number of columns and rows, choose a table. word automatically chooses a width for the table columns.
- v) click ok the text convert to a table.

Q:10- create a file in MS-Word to insert a table in the document - Describe all steps involved in it.

Ans: 1) open a blank word document.

- 2) In the top ribbon, press Insert.
- 3) click on the table button.
- 4) Either use the diagram to select the no. of columns and rows you need.
- 5) The blank paper/table will appear on the page.

Q:11- Create a following worksheet in MS-excel and save it with name 'book 1'.

Ans: Right click the worksheet more table.

- 1) click select move or copy.
- 2) click on the move select sheet to book drop-down

menu. select (new book).

4. click ok your new worksheet opens with your moved worksheets.

5. click file > save in your new workbook with name 'book1'.

Q:13- Describe following terms in the worksheet:

Ans Absolute reference and relative reference in formula.

Ans Relative and absolute references behave differently when copied and filled to other cells. Relative references changes when a formula is copied to another cell. Absolute references, on the other hand, remain constant no matter where they are copied.

cell address.

Ans A cell address is a combination of a column letter and a row number that identifies a cell on a worksheet.

Q:14- What tools are available to customize our powerpoint presentation?

Ans Tools available to customize our PPP are:

- Screen Recording, Animations, Best Practices, Images and resources.

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

Ans 1) Start a blank presentation, 2) Type text into your title slide, 3) Insert more slides, 4) Add content to slides, 5) change the design, 6) Add animations & transitions, 7) save your presentation, 8) Print your presentation.

Q:16- What is the difference between Machine language and High level language?

Ans

Machine language	High level language
1) It is considered as a machine-friendly language.	It is considered as a programmer-friendly language.
2) It is not portable.	It can be ported from one location to another.
3) It is ^{not} easy to understand.	It is ^{not} difficult to understand.
4) It is difficult to debug.	It is easy to debug.
5) It consumes less memory.	It consumes more memory.

Q:17- Discuss about different data type of C Programming language.

Ans The C programming language provides the four basic arithmetic type specifiers char, int, float and double, and the modifiers signed, unsigned, short and long. Following lists the permissible combination in specifying a large set of storage size-specific declarations.

Q:18- Find the output of the following expressions:

- $X = 20/5 * 2 + 30 - 5$
- $Y = 30 - (40/10 + 6) + 10$
- $Z = 40 * 2/10 - 2 + 10$

$$a) \text{ Ans } x = 20 \div 5 \times 2 + 30 - 5$$

$$x = 4 \times 2 + 30 - 5$$

$$x = 8 + 30 - 5$$

$$x = 38 - 5$$

$$x = 33$$

$$b) \text{ Ans } y = 30 - (40 \div 10 + 6) + 10$$

$$y = 30 - (4 + 6) + 10$$

$$y = 30 - 10 + 10$$

$$y = 30$$

$$c) \text{ Ans } z = 40 \times 2 \div 10 - 2 + 10$$

$$z = 40 \times 5 - 2 + 10$$

$$z = 200 - 2 + 10$$

$$z = 210 - 2$$

$$z = 208$$

Q:19- Describe the syntax of the following statements :

- If-else statement.
- for loop.
- while loop.
- do-while loop.

	If-else statement	for loop	while loop	do-while loop
Ans:	If condition returns true then the statement inside the body of 'if' are executed and the statement inside body of 'else' are skipped.	The initialization statement describes the starting pt. of the loop, where the loop variable is initialized with a starting value.	The body is executed if and only if the condition is true.	do {statements} while (expression).

Ques Find the output of the following segments :

a) #include <stdio.h>

```
int main()
```

```
{
```

```
int i;
```

```
for (i=1; i<2; i++)
```

```
{
```

```
printf("IMS Ghaziabad\n");
```

```
}
```

```
}
```

output

IMS Ghaziabad

b) #include <stdio.h>

```
int main()
```

```
{
```

```
int i=1;
```

```
while (i<=2)
```

```
{
```

```
printf("IMS Ghaziabad\n");
```

```
i = i + 1;
```

```
}
```

```
}
```

output

IMS Ghaziabad , IMS Ghaziabad

c) #include <stdio.h>

```
void main()
```

```
{
```

```
int a = 10, b = 100;
```

```
if (a > b)
```

```
printf("largest number is %d\n", a);
```

```
else
```

```
printf("largest number is %d\n", b);
```

```
}
```

output

largest no. is 100