



**पुर्णा International School**

Shree Swaminarayan Gurukul, Zundal

**Class -VII**

**Super Computer**

**Assignment**

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# CH-1 COMPUTER LANGUAGES AND SOFTWARE

❖ **Focus of the chapter**

1. Generations of computer languages
2. Differences between low-level and high-level languages
3. Computer software and its types
4. Conversion of binary numbers into decimal numbers and vice-versa

❖ **Keywords**

- **Low-level language**-a computer language that is in binary form or in a form similar to it.
- **High-level language** -a computer language that is closer to human language.
- **System software** – software used to operate and control hardware and run application software
- **Application software** – software used to do specific tasks.
- **General Purpose Software** – Software that provides features that can be used by a majority of users.
- **Customized software** – Software specially designed to fulfill the particular requirements of users.

❖ **Checkpoint**

❖ **Match the columns.**

1	Machine language	a	Designed to fulfill the requirements of a particular individual or company.
2	System Software	b	Used to create, store, modify and sort data in a database
3	Assembler	C	Developed to operate and control the computer hardware
4	Database management system	D	Translates programs written in assembly language to machine language
5	Customized software	E	Programs written in binary form

❖ **Ans.** 1- e 2- c 3- d 4- b 5- a

❖ **Exercise Corner**

➤ **Tick(✓) the correct answers.**

1. C, C++ and C# are types of which of the following?  
A. High-level languages
2. Windows 7 is a/an  
A. Operating system
3. Which of the following is a spreadsheet program?  
A. Lotus 1-2-3
4. The binary number system uses only  
A. 2 single digits
5. Which of the following is the base of the binary number system?  
A. 2

**B. Fill in the blanks.**

1. The first and second generation languages are low-level languages.
2. Artificial intelligence languages are fifth generation languages.
3. Some popular fourth generation languages are PL/SQL, Foxpro, Stata, Oracle and Visual Basic.
4. Some popular fifth generation languages being developed are Mercury, OPS5 and Prolog.
5. The full form of BASIC is Beginners' All Purpose Symbolic Instruction Code

**C. Match the columns.**

1	Robots	a	Adobe Photoshop, Paint and OpenOffice Draw
2	Device drivers	b	Disk Defragmenter, System Restore, Antivirus and Disk Cleanup
3	Utility programs	c	CorelDRAW, INDesign, QuarkXPress and Microsoft Publisher
4	Drawing and Painting software	d	Software used to control printers, speakers, hard disk drives, and so on
5	DTP software	e	Systems working with artificial intelligence

**Ans.**1- e 2- d 3- b 4- a 5- c



4. Which of the following is the application software?

- a. MS Word                      b. windows 7c. windows xpd. all of these

5. Which of the following is used to create, modify and sort data stored in database?

- a. DTP                      b. MS Word                      c. Writer                      d. DBMS



## CH-2 Formulas and Functions in MS EXCEL 2010

### ❖ Focus of the chapter

1. Cell address, range and reference
2. Formulas
3. Cell references in formulas
4. Entering a formula
5. Calculations using formulas
6. Copying formulas
7. Errors
8. Functions
9. AutoSum

### ❖ Keywords

- **Range** – a selected rectangle block of two or more cells
- **Formula** – An equation used to perform calculations in Excel
- **Cell reference** – cell address or range used in formula
- **Fill handle** – a feature used to extend a formula into selected cells.
- **AutoSum** – a feature used to insert the functions of sum, average, count numbers, Max, Min and so on.

### ❖ Checkpoint 1

#### Fill in the blanks.

1. A selected rectangular block consisting of two or more cells in it is called acell range or range
2. A formula begins with an equals(=) sign.
3. In absolute cell reference, the reference of a cell does not change.
4. The absolute cell reference for the cell located in column F and row 6 is \$F\$6
5. The length of a formula cannot be more than 8192 characters.
6. The #DIV/0! Error is displayed in a cell when a number is divided by zero.

### ❖ Checkpoint 2

#### Fill in the blanks.

1. A predefined formula is known as a functions.
2. The values on which the operations are performed are called arguments
3. The output of =POWER(2,3) is 8
4. SUM function is used to find the sum of the given numbers or a series of cells.
5. COUNT function is used to find out how many cells contain a number and not text.

### ❖ Exercise Corner

#### A. Tick (✓) the correct answers.

1. What is a cell address in a formula called?  
A. Cell reference
2. Which of the following is used to copy a formula in other cells ?  
A. Fill handle
3. Which of the following is a function in Excel?  
A. Sum
4. Which of these functions is used to calculate the value of a number raised to a power?  
A. POWER
5. Which of the these functions is used to find the highest number in a set of numbers or a series of cells?  
A. MAX



**B. Fill in the blanks.**

1. The cell address AA119 represents the row heading 119 and the column heading AA.
2. The absolute cell reference for a cell located in row 89 and column L is \$L\$89
3. Functions are found under the formulas tab.
4. COUNT is a type of statistical function.
5. =PRODUCT(5,12,13) will give the output as 780
6. =POWER(5,4) will give the output as 625
7. Autosum is a shortcut to insert functions of Sum, Average, Count , Max and Min.

**C . Match the columns.**

1	Formula	a	Dollar sign
2	Relative cell reference	b	Predefined formula
3	Absolute cell reference	C	As default in Excel
4	Functions	D	Shortcut in the Formula tab
5	AutoSum	E	equation

**Ans.**1- e 2- c 3- a 4- b 5- d

**D . Give examples.**

1. Cell range – A1:B4
2. Absolute cell reference - \$A\$2
3. Errors - #DIV/0!
4. Statistical functions – MAX, MIN

**E . Give the use of the following functions.**

1. SUM – It is used to find the sum of the given numbers or a series of cells.
2. QUOTIENT – It is used to find the quotient when one number is divided by another.
3. POWER – It is used to calculate the value of a number raised to a power.
4. MIN – It is used to find the minimum number from a set of numbers.

5. COUNT – It is used to count how many cells contain a number and not text.

6. PRODUCT – It is used to multiply the given numbers.

### Extras

➤ **Tick(✓) the correct answers.**

1. Which of the following functions is Mathematical function?

- a. SUM                      b. PRODUCT                      c. POWER                      d. all of these

2. Which of the following functions is used to find the sum of the given numbers?

- a. SUM                      b. PRODUCT                      c. POWER                      d. all of these

3. Which of the following functions is used to find the quotient when one number is divided by another?

- a. SUM                      b. PRODUCT                      c. POWER                      d. QUOTIENT

4. Which of the following functions is used to multiply the given numbers?

- a. SUM b. PRODUCT                      c. POWER                      d. QUOTIENT

5. Which of the following is used to find the minimum number from a set of numbers?

- a. SUM                      b. MAX                      c. MIN                      d. QUOTIENT