



पुर्णा International School

Shree Swaminarayan Gurukul, Zundal

Class - VII

Super Computer

Exercise Corner

Specimen Copy

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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

D. Name the following.

1. Software that must be installed into a computer before running any other software.
A. Operating system
2. Software that is specially designed to fulfill the requirements of a particular individual or company
A. Customized Software
3. Software used by engineers, architects and designers to produce detailed design plans and technical drawings.
A. CAD
4. Software that provides many features and can be used by a majority of users.
A. Word Processing Software
5. Number system that consists of 10 digits, 0-9 with base 10
A. Decimal Number System

E. Give two examples each of the following.

1. Third generation languages - C , C++
2. Operating Systems - Windows 7, windows 10
3. Word processing software - MS WORD, OK WORD
4. Presentation software - MS Powerpoint, Corel Presentation
5. DBMS Software – Microsoft Access , Oracle
6. Graphics Software – Adobe Photoshop , MS Paint

Extras

➤ **Tick(✓) the correct answers.**

1. Which of the following is the low-level language?
a. C b. C++ c. Java d. machine language
2. Which of the following is the high-level language?
a. C b. C++ c. Java d. all of these
3. Which of the following is the system software?
a. Java b. C++ c. MS WORD d. Windows 7

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