Class 7
Subject- Computer Science
Topic- Number System

Synopsis:-

- Which time many Science system have Revolt there different symbols and method of computations were used. These systems are called number systems.
- The decimal number system consists of 10 digits 0, 1 2, 3, 4, 5, 6, 7, 8 and 9.
- The base of a number system tells us about the total number of digits used in that system.
- A power is the number of times a base is multiplied by itself.
- The binary number system uses only two digits 0 and 1.
- We can convert a binary number into its decimal equivalent number and a decimal number into its binary equivalent number.
- The octal number system consists of 8 years from 0 to 7.
- The hexadecimal number system consists of 16 digits and symbols.

Worksheet:-

A) Fill in the blanks:-

1) The base of the decimal number is _____.
2) The _____ of a number system is placed as a subscript of a number.
3) Each position in the ____ ____ system represents the power of the base.
4) _____ is the number of times a base is multiplied by itself.
5) In the _____ _____ of a binary number is 1 the number odd.
6) If the last digit of a binary number is 0 the number is ____.

B) State true or false and correct it.

1) The power is written to the right of the best as a superscript.
2) The digits used in the hexadecimal number system are from 0 to 9.
3) A byte consists of 16 bits.
4) The base of binary number system is 2.
5) Hexadecimal number system consists of 15 digits and symbols.
6) Any number raised to the power 0 is 1.

C) Answer these questions:-

1) What is number system? Name the four types of number system with their bases.
2) What is positional value system?
3) Define:-
   Bit , Nibble , Byte , A word, A double word.
4) Write the letters in hexadecimal number with their represented decimal number.

5) Write steps:-
    a) To convert a decimal number into a binary number.
    b) To convert a binary number into a decimal number.
6) Explain:-
   Base,
   Number system,
   Subscript,
   Superscript

Exercise from the textbook:-

A, B, C (1, 2)

Project work (1, 2)

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