

Satish Chandra Memorial School

Class - VII

CLASS TEST- 1

Subject - Computer

Topic - Number System

Marks - 15

Duration - 30 Minutes

General Instructions: Write date, Class test -1, Answer with option number only.
All questions are compulsory. Each question carries 1 mark

Choose the correct option for the following:

- I. The total number of digits used in a number system is called its _____.
a. Circle / Oval
b. Perpendicular / Altitude
c. Radius / Arc
d. Base / Radix
- II. Which one of the following is not a type of Number System?
a. Hieroglyphics b. Hexadecimal c. Octal d. Binary
- III. Why Binary number system is known as **base 2 number system**?
a. It can add 2 numbers only b. It consists of 2 digits; 0 & 1
c. It can subtract 2 number only d. It can multiply 2 digits only
- IV. 1024 MB = 1 _____?
a. KB b. TB
c. GB d. PB
- V. Which one the following is **not a correct step to Convert Binary Number to Decimal Number**?
a. Give the positional value of the digits in binary number from the rightmost digit
b. Multiply the binary digit with 2 to the power of their positional values
c. Sum all the products
d. Combine the binary digits to form group of two
- VI. Example: $(741)_8$
In the above example what does the Digit **8** stands for?
a. Base b. Altitude c. Perpendicular d. Angle
- VII. The _____ of a digit in a number is the digit itself.
a. Place value b. Face value c. Binary value d. Decimal value
- VIII. $(1110)_2 \rightarrow (?)_{10}$
a. $(16)_{10}$ b. $(15)_{10}$ c. $(14)_{10}$ d. $(24)_{10}$
- IX. $(22)_{10} \rightarrow (?)_2$
a. $(10100)_2$ b. $(11110)_2$ c. $(1000)_2$ d. $(10110)_2$
- X. **Add: $(1101)_2 + (1010)_2$**
a. $(10111)_2$ b. $(10101)_2$ c. $(11101)_2$ d. $(11111)_2$
- XI. **Subtract: $(1101)_2 - (1010)_2$**
a. $(1011)_2$ b. $(0101)_2$ c. $(0110)_2$ d. $(0011)_2$
- XII. **Multiply: $(1010)_2 \times (101)_2$**
a. $(101101)_2$ b. $(101010)_2$ c. $(110010)_2$ d. $(101011)_2$
- XIII. **Divide: $(10101)_2 \div (11)_2$**
a. $(0011)_2$ b. $(101)_2$ c. $(1010)_2$ d. $(0111)_2$

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- XIV. A digital computer represents data and information using the _____ number system.
a. Binary b. Decimal c. Hexadecimal d. Octal
- XV. _____ number systems are used to represent **File permissions in the UNIX operating system.**
a. Hexadecimal b. Octal c. Binary d. Decimal