

COL.MEHAR LITTLE ANGELS SR. SEC. PUBLIC SCHOOL
QUESTION BANK-CLASS VII
SUBJECT: COMPUTER
CHAPTER: 1 NUMBER SYSTEM
CHAPTER: 7 WORKING WITH LAYERS

Q1. Answer the following questions:

- a. Explain Number System and its commonly used types.
- b. What are the rules to convert a Decimal number into Binary number?
- c. Write the rules to multiply two Binary numbers.
- d. Briefly explain octal number system.
- e. What do you understand by the Base or Radix of a number system?
- f. Why do we use Binary number system in computers?
- g. What do you understand by the term layer?
- h. How will you add a new layer?
- i. What is the use of Opacity tween?
- j. How is the Onion skin helpful to us?
- k. What is the use of colouring tween?

Q2. Answer in one word:

- a. Who introduced the concept of Zero?
- b. What helps you to convert the decimal format into its binary equivalent?
- c. In Binary multiplication, 1×1 equals to _____
- d. To convert Decimal number into Binary number, divide the number by _____
- e. Which tool allows you to see the faint ghost image of the previous frame?
- f. Which option is used to repeat the animation?
- g. Which type of tween helps you change the outline colour of an object?
- h. Write the shortcut key to lock the frame?

Q3. Correct the following statements:

- a. The onion skin tool is present below the workspace.
- b. The numbers used on octal number system are 1 to 7.
- c. Aryabhat introduced the concept of Zero.
- d. The decimal number system consists of 9 digits.
- e. In Binary addition $1+1=2$.

Q4. Convert the given binary numbers into their decimal equivalent:

- a. $(1011)_2$ b. $(100110)_2$ c. $(10101)_2$ d. $(10010)_2$ e. $(10100)_2$

Q5. Convert the given decimal numbers into their binary equivalent:

- a. $(45)_{10}$ b. $(321)_{10}$ c. $(68)_{10}$ d. $(747)_{10}$ e. $(535)_{10}$

Q6. Perform binary addition on the following:

- a. $(101)_2 + (11)_2$ b. $(1000)_2 + (111)_2$ c. $(1010)_2 + (1010)_2$
d. $(11111)_2 + (1011)_2$ e. $(10110)_2 + (10001)_2$ f. $(1001101)_2 + (100011)_2$

Q7. Perform binary subtraction on the following:

- a. $(1111)_2 - (1010)_2$ b. $(1001)_2 - (11)_2$ c. $(1110)_2 - (101)_2$
d. $(10001)_2 - (100)_2$ e. $(10011)_2 - (1010)_2$ f. $(1111)_2 - (1001)_2$

Q8. Fill in the blanks:

- a. The base of binary number system is _____.
- b. The base of _____ system is 10.
- c. Octal number system consists of _____ digits.
- d. In Binary addition, $1+1$ equals to _____.
- e. _____ number system is understood by the computer system.
- f. _____ uses 16 symbols to represent numbers.
- g. In Binary subtraction, $1-1$ equals _____.
- h. Layers are like _____ sheets that can hold objects and are stacked on top of each other.
- i. An inactive layer is indicated with _____ coloured box.
- j. You can add your object in the _____ for further use in the project.
- k. _____ is the shortcut key to lock a frame.