HW

Date 30/1/22
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Exercise

Section - A

A. Fill in the blanks :-

1. The base of binary system is 2.
2. The base of decimal system is 10.
3. Octal number system consists of 8 digits.
4. In Binary addition, 1+1 is equal to 10.
5. Binary number system is understood by the computer system.
6. Hexadecimal uses 16 symbols to represent numbers.
7. In Binary substraction, 1-1 equals 0.

B. State true or false.

1. You cannot perform arithmetical operations on Binary numbers. False
2. The decimal number system consists of 10 digits ie 0 to 9. True
3. The method to perform division of two binary numbers is not the same as that of decimal numbers. False
4. 1 multiplied by 0 equals to 0. True.
5. Charles Babbage introduced the concept of 0. false
6. The numbers used in Octal number system are 1 to 7. False.

Section - B

A. Multiple choice questions.

1. Aryabhat introduced the concept of zero.
ans- Aryabhat.

2. A digital computer converts the decimal format into its Binary equivalent
ans- digital computer.

3. A computer understands only Binary Code.
ans Binary.

4. In Binary multiplication, 1×1 equals to 1.
ans - 1

5. To convert decimal number into Binary number, divide the number by 2.
ans - 2.

B. Answer the following questions.

1. What is number system? Name the different types of number system used.

ans- A number system is a set of value used to represent quantities.
It is of 4 types :-

1) Decimal number system.
2) Binary number system
3) Octal number System
4) Hexadecimal number system

2. What are the rules to convert a Decimal number into a Binary number?

Ans: Step-1 - Divide the given decimal number with the base i.e. 2.

Step-2 - Write down the remainder, divide the quotient again by 2.

Step-3 - Repeat Step 2 till the quotient is zero.

Step-4 - After the quotient is zero collect the remainders from the bottom to top.

3. Write the rules to multiply two Binary numbers.

Ans. 1x1 = 1 0x1 = 0

1x0 = 0 0x0 = 0

4. Briefly explain Octal number system.

Ans Octal Number system consists of 8 digit - 0 to 7 with the base 8.

5. What do you understand by 'Hexadecimal Number System'?

Ans The number system consists of 16 digits: 0-9, the base is 16. The number system is also common as Hex. system. Hex = 6 and Decimal = 11, so it is called Hexadecimal.

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