

Chapter- 1NUMBER SYSTEM**WORKSHEET**

A. Convert the following Decimal no to binary and vice versa?

1.  $(145)_{10} = (\text{-----})_2$

2.  $(23)_{10} = (\text{-----})_2$

3.  $(65)_{10} = (\text{-----})_2$

4.  $(129)_{10} = (\text{-----})_2$

5.  $(36)_{10} = (\text{-----})_2$

6.  $(11011)_2 = (\text{-----})_{10}$

7.  $(11110)_2 = (\text{-----})_{10}$

8.  $(10001)_2 = (\text{-----})_{10}$

9.  $(101010110)_2 = (\text{-----})_{10}$

10.  $(111000)_2 = (\text{-----})_{10}$

B. Convert the following binary numbers to octal form.

1.  $10110100_2$

2.  $110001_2$

C. Convert the following binary numbers to hex form.

Q.1)  $1010001100$

2.  $100111011111$

D. Convert the following decimal numbers to hex form.

$(345)_{10} = (\text{-----})_{16}$

**E. Do the following binary arithmetic?**

1.  $10101+00111$

2.  $1001101+1000101101$

3.  $1101+1001$

4.  $10011-01010$

5.  $11001001-01100110$

6.  $111-001$

7.  $101X011$

8.  $1011X101$

9.  $101010X 1011$

10.  $1111/11$

11.  $111001/101$

