

## **Assignment – Class XI**

### **Data Representation**

1. Convert the following-

- (i)  $(97)_{10}$  to binary
- (ii)  $(63.25)_{10}$  to binary
- (iii)  $(110.01)_2$  to decimal
- (iv)  $(111011110101)_2$  to hexadecimal
- (v)  $(5B7D)_{16}$  to binary
- (vi)  $(5A9)_{16}$  to decimal
- (vii)  $(510)_{10}$  to hexadecimal
- (viii)  $(11001101110)_2$  to octal
- (ix)  $(5371)_8$  to binary
- (x)  $(5737)_8$  to decimal
- (xi)  $(257)_{10}$  to octal

2. Find the eight bit two's complement form of  $(-15)_{10}$

3. Write a short note on –

- (i) Sign and magnitude representation of integers
- (ii) Binary Representation of Real Numbers
- (iii) Unicode