

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