Data Representation and Organization

HNDIT1104

Assignment- 02

01). Find the solution for the following number conversion?

a). Convert the following decimal numbers to binary

i). 57 ii). 27 iii). 34 iv). 113

b). Convert the following binary numbers to decimal

i). 11010112  ii). 001110112

c). Convert the following hexadecimal numbers to decimal

i). BB.14 ii). A10.44 (30 Marks)

02). Do the following conversion between octal and binary.

a). Convert the following binary numbers to octal

i). 11.01 ii) 11001011.110

b). Convert the following octal numbers to binary

i). 728208  ii). 12.14

(20 Marks)

03). Do the following conversion between hexadecimal and binary.

a). Convert the following binary numbers to hexadecimal

i). 1100010112 ii) 1001001100.1102

b). Convert the following hexadecimal numbers to binary

i). 21A.16 ii). F13

(20 Marks)

04). Do the following conversion between hexadecimal and octal.

a). Convert the following octal numbers to hexadecimal

i). 7768 ii) 52408

b). Convert the following hexadecimal numbers to octal

i). FA1  ii). AA12

(30 Marks)