DATA REPRESENTATION

01. Convert following decimal fractions into binary equivalent.

I. 15.75

II.19.50

III.32.67

IV.43.84

V.28.31

02. Convert following decimal fractions into octal equivalent.

I. 32.45

II. 34.67

III. 87.43

IV. 12.34

V. 51.62

03. Convert following decimal fractions into hexadecimal equivalent.

I. 32.31

II. 11.35

III. 93.47

IV. 13.42

V. 22.43

04. Simplify the following binary additions.

I. 101 + 110

II. 1001 +111

III. 111 + 10

IV.1100 + 0111

V. 1010 + 1101

05. Simplify the following binary substractions.

I. 101 − 10

II. 1010 − 101

III. 1111 − 1000

IV. 1001 − 101

V. 1101 – 111

06. Simplify the following bit wise AND operations.

I. 100 AND 110

II. 1111 AND 1001

III. 101 AND 011

IV.1001 AND 0110

V.110 AND 101

07. Simplify the following bit wise OR operations.

I. 10 OR 11

II. 111 OR 100

III.101 OR 011

IV.1101 OR 0110

V. 1000 OR 0001

08. Simplify the following bit wise NOT operations.

I. 101

II. 110

III. 0111

IV. 0001

V. 1001

09. Simplify the following bit wise XOR operations.

I.101 XOR 011

II. 111 XOR 101

III. 101 XOR 011

IV. 1101 XOR 0110

V. 1000 XOR 0001

10. Find the 1's compliment of the following.

I. 20-8

II. 15-5

III. 35-12

IV. 22-7

V. 18-9

VI. 13-2

11. Find the 2's compliment of the following.

I. 31-8

II. 22-8

III. 18-6

IV. 34-9

V. 27-7

VI. 14-2