

## Binary Number System (Assignment Solutions)

**Question 1 :** The decimal forms of binary numbers :

- 111111 => 63
- 10110 => 22
- 10011 => 19
- 110010 => 50

**Question 2 :** The binary forms of decimal numbers :

- 25 => 11001
- 49 => 110001
- 31 => 11111
- 88 => 1011000

**Question 3 :** Binary of 63 => (111111) & 22 => (10110)

When we add these binary numbers, calculation is as follows:

$$\begin{array}{r} \begin{array}{cccc} 1 & 1 & 1 & 1 \\ & 1 & 1 & 1 & 1 & 1 \\ + & \hline & 1 & 0 & 1 & 1 & 0 \end{array} \\ \hline \end{array} = 85$$

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