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Assignment II

I.

(i) $6 << 2$

$a = 6$

$n = 2$

So, $a * 2^n = 6 * 2^2 = 24$ Ans.

(ii) $8 << 2$

$a = 8$

$n = 2$

So, $a * 2^n = 8 \times 2^2 = 32$ Ans.

II.

1. $8 \& 7$

(×) $8 \to 1000$

$7 \to 111$

$$
\begin{array}{r}
1000 \\
0111 \\
\hline
0000
\end{array}
$$
$= 0$ (Ans)

2. $9 | 8$

$9 \to 1001$

$8 \to 1000$

(+)

$$
\begin{array}{r}
1001 \\
1000 \\
\hline
(1001)_2
\end{array}
$$
$= (9)_{10}$ Ans

3. $10 \char`^ 5$

$10 \to 1010$

(^) $5 \to 0101$

$$
\begin{array}{r}
1010 \\
0101 \\
\hline
(1111)_2
\end{array}
$$
$= (15)_{10}$ Ans