

Kushagra X-C

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(15)

Ques-15

Section-C

Ans- 114, 112 and 418.

$$\begin{array}{r|l} 114 & \\ \hline 3 & 57 \\ 19 & 19 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 112 & \\ \hline 2 & 56 \\ 2 & 28 \\ 2 & 14 \\ 7 & 7 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 418 & \\ \hline 11 & 209 \\ 19 & 19 \\ \hline & 1 \end{array}$$

$$\begin{aligned} \text{LCM} &= 2 \times 3 \times 19 \times 2 \times 2 \times 2 \times 7 \times 11 \\ &= 70224 \end{aligned}$$

Ques-17

Ans-  $2x + y - 6 = 0$ .

$4x - 2y - 4 = 0$ .

$$\frac{a_1}{a_2} \quad \frac{b_1}{b_2} \quad \frac{c_1}{c_2}$$

$$\Rightarrow \frac{2}{4} \quad \frac{1}{-2} \quad \frac{+6}{+4}$$

$$\Rightarrow \frac{1}{2} \neq \frac{1}{-2}$$

$\Rightarrow$  it is consistent and has a unique solution.