

$$2. \text{ CP of 80 articles} = \text{Rs } 2400$$

$$\text{Profit \%} = 16$$

$$\begin{aligned} \text{SP of 80 articles} &= \frac{100 + \text{P}\%}{100} \times \text{CP} \\ &= \frac{100 + 16}{100} \times 2400 \end{aligned}$$

$$\begin{aligned} \text{SP of 1 article} &= \frac{116}{100} \times \frac{\overset{3\phi}{2400}}{\underset{80}{80}} \\ &= \text{Rs } 34.80 \end{aligned}$$

$$4. \text{ cost of article} = \text{Rs } 15500$$

$$\text{overhead expenses} = \text{Rs } 450$$

$$\begin{aligned} \text{C.P.} &= 15500 + 450 \\ &= \text{Rs } 15950 \end{aligned}$$

$$\text{Profit \%} = 15$$

$$\begin{aligned} \text{S.P.} &= \left( \frac{100 + \text{P}\%}{100} \right) \times \text{CP} \\ &= \frac{100 + 15}{100} \times 15950 \\ &= \frac{115}{100} \times 15950 \\ &= \text{Rs } 18342.50 \end{aligned}$$