



Compound Interest Ex 14.5 Q7

**Answer :**

$$\text{Cost of the TV} = P \left( 1 + \frac{R}{100} \right) \left( 1 - \frac{R}{100} \right)$$

$$\Rightarrow 17,000 \left( 1 + \frac{5}{100} \right) \left( 1 - \frac{4}{100} \right)$$

$$= 17,000(1.05)(0.96)$$

$$= 17,136$$

Thus, the cost the TV in 2001 was Rs 17,136.

Compound Interest Ex 14.5 Q8

**Answer :**

$$\text{Profit for three years } s = P \left( 1 - \frac{R_1}{100} \right) \left( 1 + \frac{R_2}{100} \right) \left( 1 + \frac{R_3}{100} \right)$$

$$\Rightarrow 500,000 \left( 1 - \frac{4}{100} \right) \left( 1 + \frac{5}{100} \right) \left( 1 + \frac{10}{100} \right)$$

$$= 500,000(0.96)(1.05)(1.10)$$

$$= 554,400$$

Thus, the net profit is Rs 554,400.

\*\*\*\*\* END \*\*\*\*\*