Compound Interest Ex 14.5 Q7

Answer :

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 :

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

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

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

$= 554,400$

Thus, the net profit is Rs 554,400.

********** END *********