Compound Interest Ex 14.1 Q14

Answer :

$$A = P\left(1 + \frac{R}{100}\right)^n$$

$$= 12,000\left(1 + \frac{5}{100}\right)^3$$

$$= 12,000(1.05)^3$$

$$= 13,891.50$$

Thus, the required amount is Rs $13,891.50$.

Now,

$$CI = A - P$$

$$= \text{Rs } 13,891.50 - \text{Rs } 12,000$$

$$= \text{Rs } 1,891.50$$

Compound Interest Ex 14.1 Q15

Answer :

$$A = P\left(1 + \frac{R}{100}\right)^n$$

$$= 40,000\left(1 + \frac{7}{100}\right)^2$$

$$= 40,000(1.07)^2$$

$$= 45,796$$

Thus, the required amount is Rs $45,796$.

Now,

$$CI = A - P$$

$$= \text{Rs } 45,796 - \text{Rs } 40,000$$

$$= \text{Rs } 5,796$$

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