



Compound Interest Ex 14.1 Q12

Answer :

Given :

$$P = \text{Rs } 7,500$$

$$R = 12\% \text{ p.a.} = 3\% \text{ quarterly}$$

$$T = 9 \text{ months} = 3 \text{ quarters}$$

We know that :

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

$$A = 7,500 \left(1 + \frac{3}{100} \right)^3$$

$$= 7,500(1.03)^3$$

$$= 8,195.45$$

Thus, the required amount is Rs 8,195.45.

Compound Interest Ex 14.1 Q13

Answer :

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

$$= 9,600 \left(1 + \frac{5.5}{100} \right)^3$$

$$= 9,600(1.055)^3$$

$$= \text{Rs } 11,272.72$$

Now,

$$CI = A - P$$

$$= \text{Rs } 11,272.72 - \text{Rs } 9,600$$

$$= \text{Rs } 1,672.72$$

***** END *****

