

Solutions by Dev Anoop (Bathinda)

$$\textcircled{4} P = \text{Rs } 10240, t = 3 \text{ years}, r = \frac{25}{2}\% \text{ pa}$$

$$\text{amount} = \left(\frac{100+r}{100} \right)^n P$$

$$= 10240 \left(\frac{100 + \frac{25}{2}}{100} \right)^3$$

$$= 10240 \left(\frac{200 + 25}{200} \right)^3$$

$$= 10240 \times \frac{225}{200} \times \frac{225}{200} \times \frac{225}{200}$$

$$= \text{Rs } 14580$$

$$\text{CI} = 14580 - 10240$$

$$= \text{Rs } 4340$$

$$\textcircled{5} P = \text{Rs } 62500, t = 2 \text{ y 6 mon}, r = 12\% \text{ pa}$$

$$\text{amount} = P \left(1 + \frac{r}{100} \right)^2 \left(\frac{100 + \frac{r}{2}}{100} \right)$$

$$= 62500 \left(1 + \frac{12}{100} \right)^2 \left(\frac{100 + 6}{100} \right)$$

$$= 62500 \times \frac{112}{100} \times \frac{112}{100} \times \frac{106}{100}$$

$$= \text{Rs } 83104$$

$$\text{CI} = A - P$$

$$= 83104 - 62500$$

$$= \text{Rs } 20604$$