VIII, IIC PI

Solutions by Dev Anoop (Bathinda)

① P. = Rs 8000, time = 1 year = 2 half years
rate = 10% pa = 5% h.y.

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

$$= 8000\left(1+\frac{5}{100}\right)^2$$

$$= 8000 \times \frac{21}{20} \times \frac{21}{20}$$

$$= \text{Rs } 8820$$

$$CI = A - P = 8820 - 8000$$

$$= \text{Rs } 820$$

② P. = Rs 31250, time = $1\frac{1}{2}$ year = 3 half years
rate = 8% pa = 4% h.y.

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

$$= 31250 \times \frac{52}{104} \times \frac{26}{104} \times \frac{26}{104}$$

$$= \text{Rs } 35152$$

$$CI = 35152 - 31250$$

$$= \text{Rs } 3902$$