

VIII, exercise, P II

Solutions by Dev Anoop (Bathinda)

③ $P = \text{Rs } 12800$, time = 1 year = 2 half years
 rate = $\frac{15}{2}\%$ pa = $\frac{15}{4}\%$ half yearly

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

$$= 12800 \left(1 + \frac{15}{400}\right)^2$$

$$= 12800 \times \frac{415}{400} \times \frac{415}{400}$$

$$= \text{Rs } 13778$$

$$CI = 13778 - 12800$$

$$= \text{Rs } 978$$

④ $P = \text{Rs } 160000$, time = 2 years = 4 half y.
 rate = 10% pa = 5% half yearly

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

$$= 160000 \left(1 + \frac{5}{100}\right)^4$$

$$= 160000 \times \frac{105}{100} \times \frac{105}{100} \times \frac{105}{100} \times \frac{105}{100}$$

$$= \text{Rs } 194481.00$$

$$CI = 194481 - 160000$$

$$= \text{Rs } 34481$$