

# VIII, ex 11A P5

Solutions by Dev Anoop (Bathinda)

⑥  $P_1 = \text{Rs } 64000$ , time = 3 years, rate =  $\frac{15\%}{2}$  p.a.

$$CI_1 = \frac{P_1 r t}{100} = \frac{64000 \times 15 \times 1}{100 \times 2}$$

$$= \text{Rs } 4800$$

$$P_2 = 64000 + 4800$$

$$= \text{Rs } 68800$$

$$CI_2 = \frac{P_2 r t}{100} = \frac{68800 \times 15 \times 1}{100 \times 2}$$

$$= \text{Rs } 5160$$

$$P_3 = 68800 + 5160$$

$$= \text{Rs } 73960$$

$$CI_3 = \frac{P_3 r t}{100} = \frac{73960 \times 15 \times 1}{100 \times 2}$$

$$= \text{Rs } 5547$$

amount on maturity =  $P_3 + CI_3$

$$= 73960 + 5547$$

$$= \text{Rs } 79507.00$$

⑦ Money deposited ( $P_1$ ) = Rs 6250  
 time = 1 year = 2 half years  
 rate = 8% p.a = 4% half yearly

$$CI_1 = \frac{P_1 r t}{100} = \frac{6250 \times 4 \times 1}{100}$$

$$= \text{Rs } 250$$

$$\text{or } P_2 = 6250 + 250$$

$$= \text{Rs } 6500$$

$$CI_2 = \frac{P_2 r t}{100} = \frac{6500 \times 4 \times 1}{100}$$

$$= \text{Rs } 260$$

CI for 2 years =  $250 + 260$

$$= \text{Rs } 510$$