SIMPLE INTEREST (I)

$$I = \frac{PTR}{100}$$

$$\text{Amount } (A) = P + I$$

P.9 No:- 86

1. Given $P = 800$ $T = 3$ years, $A = 956$, $R = ?$

$$A = P + I$$

$$I = A - P = 156$$

$$I = \frac{PTR}{100}$$

$$156 = \frac{800 \times 3 \times R}{100}$$

$$R = 6.5\%$$

$$R = 6.5 + 4 = 10.5\%$$

$$I = \frac{800 \times 3 \times 10.5}{100}$$

$$= 252$$

$$A = P + I = 800 + 252$$

$$= 1052$$

2. Given $I = 600$ $P = ?$ $R = ?$

$T = 10$ yrs $\begin{cases} 5 \text{ yrs} \rightarrow P \\ 5 \text{ yrs} \rightarrow 3P \end{cases}$ $I = \frac{P \times 5 \times \frac{6000}{P}}{100} + \frac{3P \times 5 \times \frac{6000}{P}}{100}$

$$= 300 + 900$$

$$I = 1200$$

$$I = \frac{PTR}{100}$$

$$600 = \frac{P \times 10 \times R}{100}$$

$$R = \frac{6000}{P}$$

4. Given $P = 100$ $T = \frac{1}{2}$ year $R = 10\%$

$$I = \frac{100 \times \frac{1}{2} \times 10}{100} = 5/-$$

$$P = 100 + 5 = 105$$

$$I = \frac{105 \times \frac{1}{2} \times 10}{100} = 5.25 \text{ Rs.}$$

$10.25 \times 100 = 1025 \times 4$