Simple Interest Ex 13.1 Q1

Answer :

(i) Principal (P) = Rs 2000

Rate of interest (R) = 5% p.a.

Time (T) = 5 years

Simple interest = $\frac{P \times R \times T}{100} = \frac{2000 \times 5 \times 5}{100} = \text{Rs } 500$

(ii) Principal (P) = Rs 500

Rate of interest (R) = 12.5% p.a.

Time (T) = 4 years

Simple interest = $\frac{P \times R \times T}{100} = \frac{500 \times 12.5 \times 4}{100} = \text{Rs } 250$

(iii) Principal (P) = Rs 4500

Rate of interest (R) = 4% p.a.

Time (T) = 6 months

$T = \frac{6}{12} = \frac{1}{2}$ year (1 year = 12 months)

Simple interest = $\frac{P \times R \times T}{100} = \frac{4500 \times 4 \times \frac{1}{2}}{100} = \frac{4500 \times 4 \times 1}{100 \times 2} = \text{Rs } 90$

(iv) Principal (P) = Rs 12000

Rate of interest (R) = 18% p.a.

$\text{Time } (T) = 4 \text{ months} = \frac{4}{12} = \frac{1}{3} \text{ year}$ (1 year = 12 months)

Simple interest = $\frac{P \times R \times T}{100} = \frac{12000 \times 18 \times 1}{100 \times 3} = \text{Rs } 720$

(v) Principal (P) = Rs 1000

Rate of interest (R) = 10% p.a.

$\text{Time } (T) = 73 \text{ days} = \frac{73}{365} \text{ year}$ (1 year = 365 days)

Simple interest = $\frac{P \times R \times T}{100} = \frac{1000 \times 10 \times 73}{100 \times 365} = \text{Rs } 20$

********** END **********