## Simple and Compound Interest Questions for Bank Exams Pdf

1. A sum of money becomes Rs. 20925 in 2 years and Rs. 24412.50 in 5 years. Find the rate of interest and the sum of money.
a. $6.25 \%, \mathrm{Rs}, 18600$
b. $6.75 \%$, Rs. 17775
c. $7 \%$, Rs. 18000
d. $8 \%$, Rs. 17560

Ans: A

$$
\begin{aligned}
& \text { S.I. for } 3 \text { years }=₹(24412.50-20925)=₹ 3487.50 \text {. } \\
& \text { S.I. for } 2 \text { years }=₹\left(\frac{3487.50}{3} \times 2\right)=₹ 2325 . \\
& \therefore \quad \text { Principal }=₹(20925-2325)=₹ 18600 . \\
& \text { Hence, rate }=\left(\frac{100-2325}{18600 \times 2}\right) \%=6.25 \% .
\end{aligned}
$$

2. A sum of Rs. 10 is lent to be returned in 11 monthly installments of Rs. 1 each, interest being simple. The rate of interest is
(a) $9 \frac{1}{11} \%$
(b) $10 \%$
(c) $11 \%$
(d) $21 \frac{9}{11} \%$

Ans: D

$$
\begin{aligned}
& ₹ 10+\text { S.I. on ₹ } 10 \text { for } 11 \text { months } \\
& \quad=₹ 11+\text { S.I. on } ₹ 1 \text { for }(1+2+3+4+\ldots+10) \text { months } \\
& \Rightarrow \quad ₹ 10+\text { S.I. on } ₹ 1 \text { for } 110 \text { months } \\
& \\
& \quad=₹ 11+\text { S.I. on } ₹ 1 \text { for } 55 \text { months } \\
& \Rightarrow \quad \\
& \quad \text { S.I. on } ₹ 1 \text { for } 55 \text { months }=₹ 1 . \\
& \therefore \quad \text { Rate }=\left(\frac{100 \times 12}{1 \times 55}\right) \%=21 \frac{9}{11} \% .
\end{aligned}
$$

3. A person borrows Rs. 5000 for 2 years at $4 \%$ p.a. simple interest. He immediately lends it to another person at $\$ \$ 6\{1\} /\{4\} \$ \$ \%$ p.a. for 2 years. Find his gain in the transaction per year.
a. 112.50
b. 125
c. 150
d. 167.50

Ans: A

$$
\begin{aligned}
& \left.\begin{array}{rl}
\text { Gain in } 2 \text { yrs } & =\left[\left(5000 \times \frac{25}{4} \times \frac{2}{100}\right)-\left(\frac{5000 \times 4 \times 2}{100}\right)\right] \\
& =₹(625-400)
\end{array}\right)=₹ 225 . \\
& \therefore \text { Gain in 1 year }=₹\left(\frac{225}{2}\right)=₹ 112.50 .
\end{aligned}
$$

4. How long will it take sum of moneyivested at $5 \%$ D.a.S.I. to increase its value by $40 \%$ ?
a. 5 years
b. 6 years
c. 7 years
d. 8 years

Ans: D
Let the sum be $x$.
Then, S.I. $=40 \%$ of $x=\frac{2 x}{5} ;$ Rate $=5 \%$.
$\therefore \quad$ Time $=\left(100 \times \frac{2 x}{5} \times \frac{1}{x \times 5}\right)=8$ years.
5. A person takes a loan of Rs. 200 at 5\% simple interest. He returns Rs. 100 at the end of 1 year. In order to clear his dues at the end of 2 years, he would pay
a. Rs. 105
b. Rs. 110
c. Rs. 115
d. Rs. 115.50

Ans: C

$$
\begin{aligned}
\text { Amount to be paid } & =₹\left(100+\frac{200 \times 5 \times 1}{100}+\frac{100 \times 5 \times 1}{100}\right) \\
& =₹ 115 .
\end{aligned}
$$

