## Simple Interest Questions and Answers Pdf

1. The interest on a certain deposit at $4.5 \%$ p.a. is Rs. 202.50 in one year. How much will the additional interest in one year be on the same deposit at $5 \%$ p.a.?
a. Rs. 20.25
b. Rs. 22.50
c. Rs. 25
d. Rs. 42.75

Ans: B

$$
\begin{aligned}
& \text { S.I. }=₹ 202.50, R=4.5 \%, T=1 \text { year. } \\
& \text { Principal }=₹\left(\frac{100 \times 202.50}{4.5 \times 1}\right)=₹ 4500 . \\
& \text { Now, } P=₹ 4500, R=5 \%, T=1 \text { year. } \\
& \text { S.I. }=₹\left(\frac{4500 \times 5 \times 1}{100}\right)=₹ 225 . \\
& \therefore \quad \text { Difference in interest }=₹(225-202.50)=₹ 22.50 \text {. }
\end{aligned}
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2. A man buys a TV priced at Rs. 16000 . He pays Rs. 4000 at once and the rest after 15 months on which he is charged a simple interest at the rate of $12 \%$ per year. The total amount he pays for the TV is
a. Rs. 18200
b. Rs. 17800
c. Rs. 17200
d. Rs. 16800

Ans: B

Price paid $=₹ 4000$
Rest price $=₹ 12000$
Rate $=12 \%$
$\therefore=\frac{12000 \times 12 \times 5}{100 \times 12}=₹ 1800$
$\therefore$ Amount paid after 15 months

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=12000+1800=13800
$$

$\therefore$ Total amount paid for TV $=4000+13800=17800$
3. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of $10 \%$, the effective rate of interest becomes
a. $10 \%$
b. $10.25 \%$
c. $10.5 \%$
d. None of these

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Ans: B
Let the sum be ₹ 100 . Then,
S.I. for first 6 months $=₹\left(\frac{100 \times 10 \times 1}{100 \times 2}\right)=₹ 5$.
S.I. for last 6 months $=₹\left(\frac{105 \times 10 \times 1}{100 \times 2}\right)=₹ 5.25$.

So, amount at the end of 1 year $=₹(100+5+5.25)$

$$
=₹ 110.25 \text {. }
$$

$\therefore \quad$ Effective rate $=(110.25-100)=10.25 \%$.
4. Rs. 6200 amount to Rs. 9176 in 4 years at simple interest. If the interest rate is increased by $3 \%$ it would amount to how much?
a. Rs. 8432
b. Rs. 9820
c. Rs. 9920
d. Rs. $10920-\rightarrow$ C

Ans: C
$P=₹ 6200$, S.I. $=₹(9176-6200)=₹ 2976, T=4$ years:
$\therefore \quad$ Rate $=\left(\frac{100 \times 2976}{6200 \times 4}\right) \%=12 \%$.
New rate $=(12+3) \%=15 \%$.
New S.I. $=₹\left(\frac{6200 \times 15 \times 4}{100}\right)=3720$.
Now amount $=₹(6200+3720)=₹ 9920$.
5. The price of a T.V. set worth Rs. 20,000 is to be paid in 20 instalments of Rs. 1000 each. If the rate of interest be 6\% per annum, and the first instalment be paid at the time of purchase, then the value of the lastinstalment covering the interest as well will be
a. Rs. 1050
b. Rs. 2050
c. Rs. 3000
d. Rs. 19000

Ans: D
Money paid in cash = Rs. 1000.
Balance payment $=(20000-1000)=19000$.

