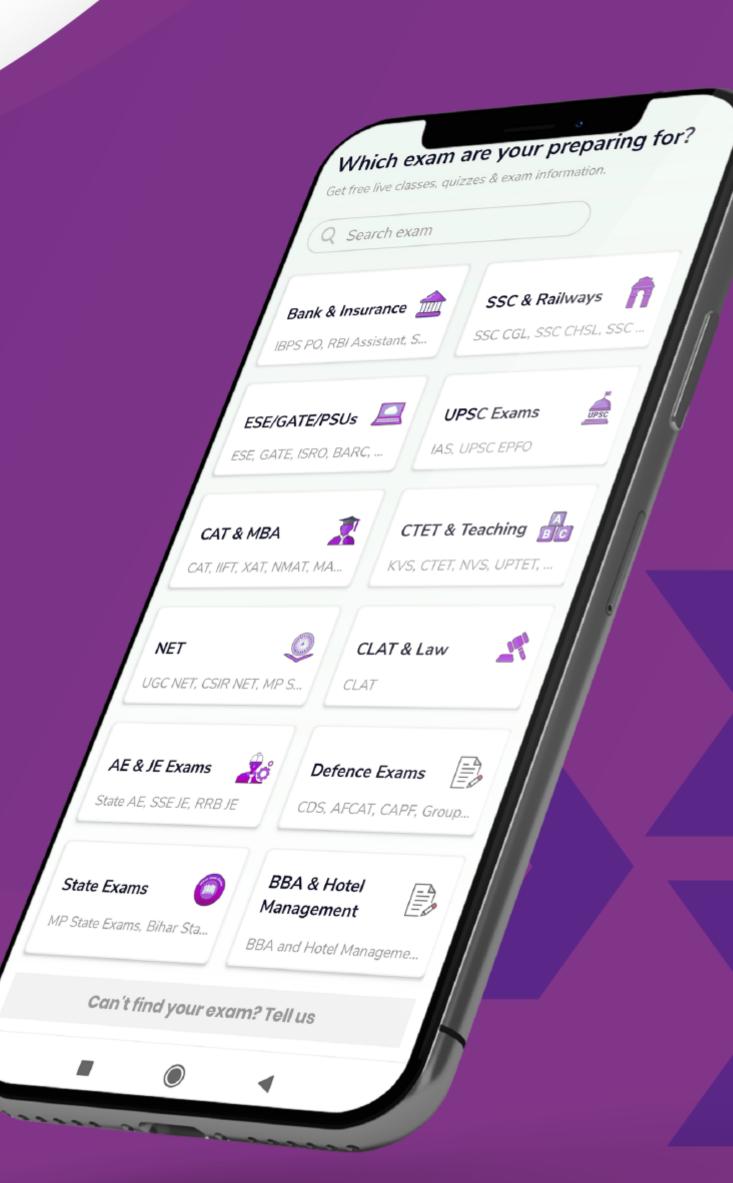


Formula Sheet On Simple Interest

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Simple Interest

• Simple interest =
$$\frac{(Principal \times Rate \times Trine)}{100}$$
 i.e S.I = $\frac{P \times R \times T}{100}$

Amount = Principal + Interest i.e A = P + I(where "i" is interest) ۲

• Principal(P) =
$$\frac{100 \times SI}{R \times T}$$

 $(100 \times S.I.)$

• Rate(R) =

• Time(T) =
$$\frac{(100 \times S.I.)}{P \times R}$$

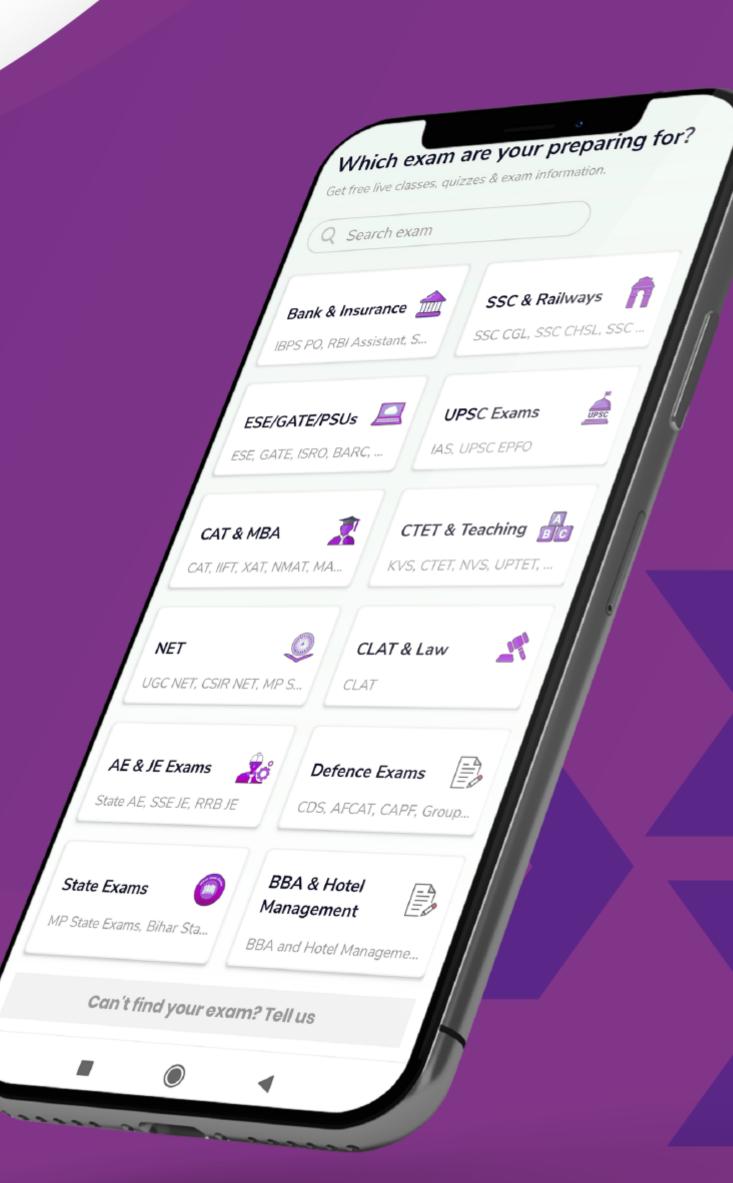
 \succ NOTE- When there is a situation given that, the rate simple interest differs from year to year,

then S.I =
$$\frac{P \times ((R1 + R2 + R3 + \cdots))}{100}$$



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Note:

1. When a Principal sum becomes "n" times of itself in t years at simple interest then

$$R\% = \frac{100(n-1)}{t}$$

2. If a certain sum is invested in n types of investments in such a manner that equal amount is obtained on each investment where interest rates are R_1 , R_2 , R_3 , R_n , respectively and time periods are T_1 , T_2 , T_3 ,, T_n , respectively, then the ratio in which the amounts are invested in:

$$\frac{1}{100 + P + T} : \frac{1}{100 + P + T} : \frac{1}{100 + P + T} : \dots \dots : \frac{1}{100 + P + T}$$

 $100 + \kappa_1 r_1 = 100 + \kappa_2 r_2 = 100 + \kappa_3 r_3 = 100 + \kappa_n r_n$

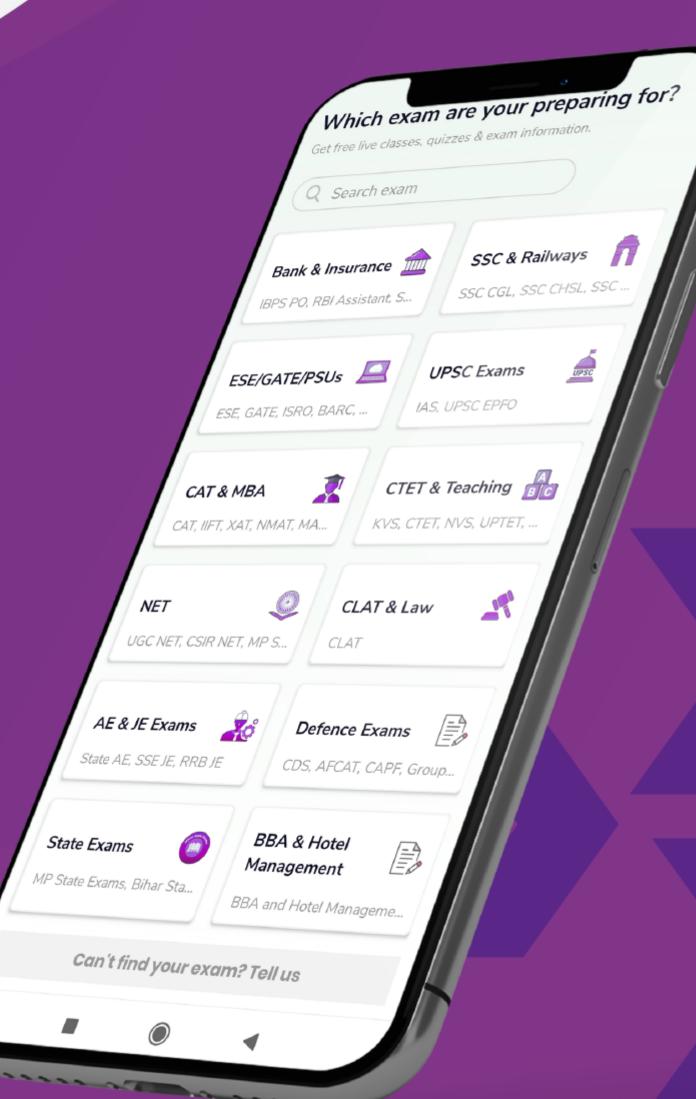
3. If a certain sum of money becomes n times itself in T years at simple interest, then the time T in which it will become m times itself is given by

$$T' = \frac{(m-1)}{(n-1)} \times T \text{ years}$$





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4. If a certain sum of money P lent out at SI amounts to A₁ in T₁ years and to A₂ in T₂ years, then

$$P = \frac{A_1 T_2 - A_2 T_1}{T_2 - T_1} \text{ and } R = \frac{A_1 - A_2}{A_1 T_2 - A_2 T_1} \times 100\%$$

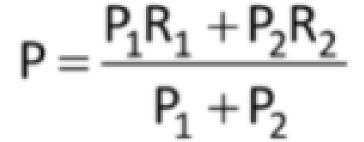
5. If a certain sum of money P lent out for a certain time T amounts to A₁ at R₁ % per annum and to A₂ at R_2 % per annum, then

$$P = \frac{A_2 R_1 - A_1 R_2}{R_1 - R_2} \text{ and } T = \frac{A_1 - A_2}{A_2 R_1 - A_1 R_2} \times 100 \text{ years}$$

6. If an amount P_1 lent at the simple interest rate of R_1 % per annum and another amount P_2 at the simple interest rate of R₂ % per annum, then the rate of interest for the whole sum is

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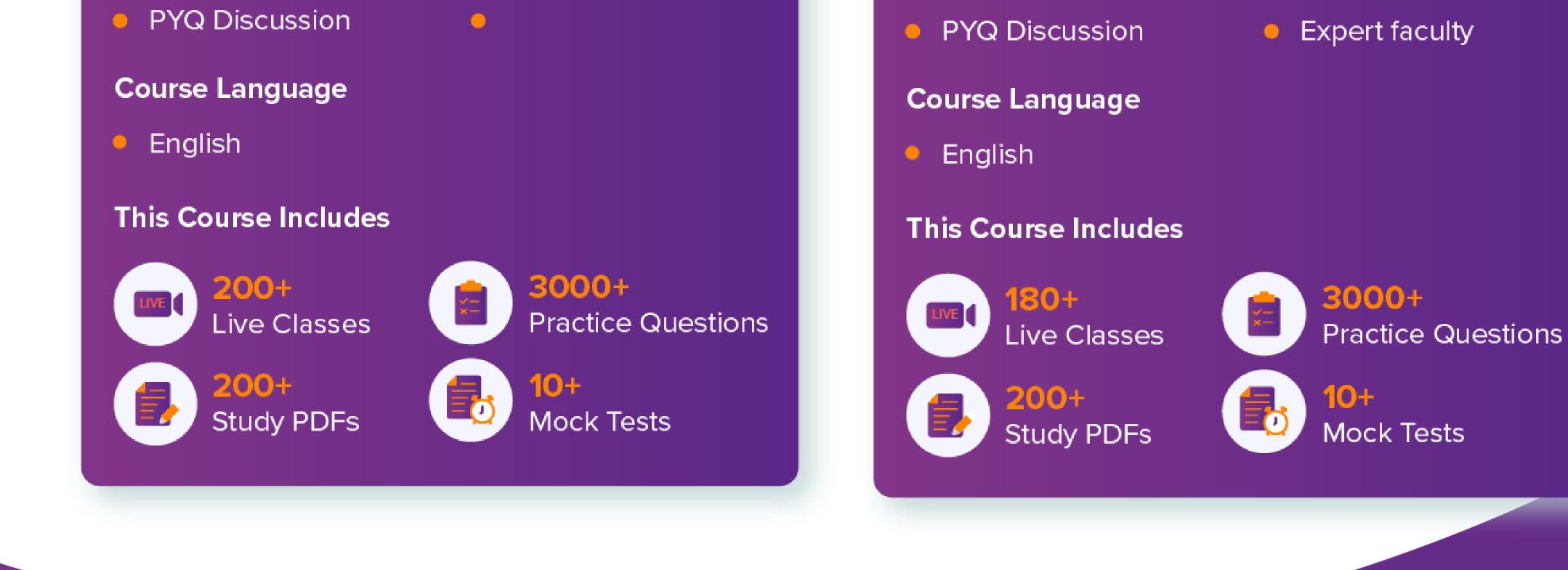
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