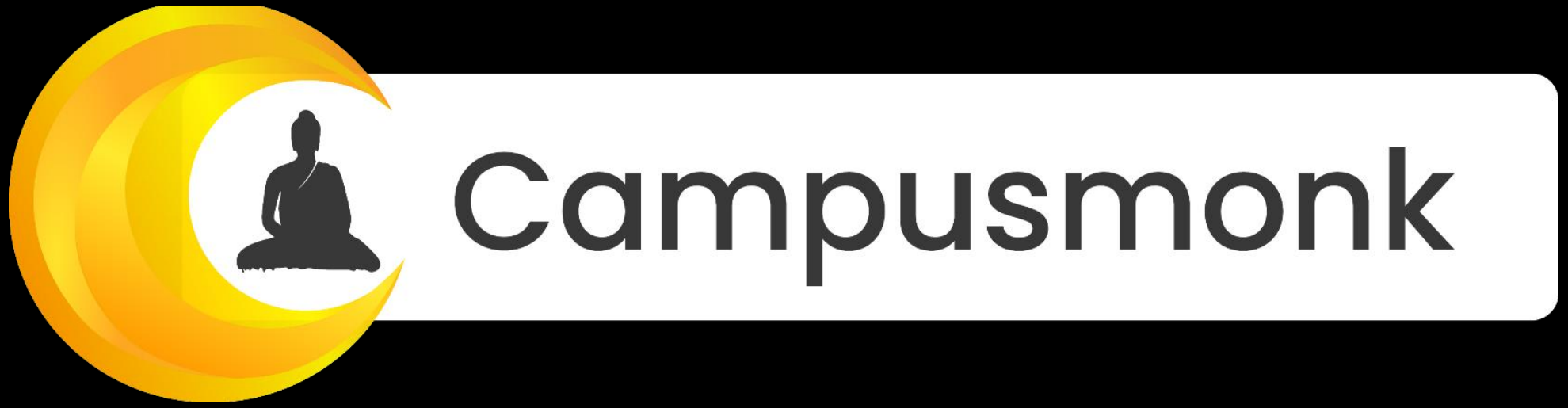

S.I- (Important) Live Series

With Rachit Rastogi

Pre-assessment :

A sum of Rs.50,250 is divided into two parts such that the simple interest on first part for $7\frac{1}{2}$ years at $8\frac{1}{3}$% p.a is $\frac{5}{2}$ times the simple interest on the second part for $5\frac{1}{4}$ years at 8% p.a. What is the difference (in Rs.) between the two parts?

Fundamental

NOTE:

1. PRINCIPAL = 100%
2. Amount = Principal + Interest
3. Interest = Rate(r) * Time(t)

Type – 1

Fundamental

Question : 1

A sum of money becomes 7/6 of itself 3 years at a certain rate of simple interest. The rate per annum is :

(1) $5\frac{5}{9}$ % (2) $6\frac{5}{9}$% (3) 18% (4) 25%

Question : 2

A sum of money invested at simple interest becomes 17/10 of itself in 2 years and 6 months. What is the rate of interest per annum?

Fundamental

Question : 3

At a Certain rate of Simple interest , a certain sum of money becomes double Of itself in 10 years . It will become treble of itself in

15 years (b) 18 years

(c) 20 years (d) 3 years

Question : 4

The simple interest on a sum of money is $\frac{9}{35}$ of the sum. If the number of years is numerically $\frac{5}{7}$ times of rate percent per annum, then the rate percent per annum is :

Type 2:

Fundamental

Question : 1

A Certain sum of money is borrowed by a person at 3% Simple Interest for 4 years. If he has to pay Rs. 120 as interest , find the total amount he has to pay

(a) Rs. 1020 (b) Rs. 820

(C) Rs. 1120 (d) Rs. 1220

Question : 2

Simple interest on an amount after 24 months at the rate of 2% per quarter is 960. What is the amount?

Question : 3

The simple interest obtained on a certain amount at 7.5% p.a. for two years is 232.50. What is the amount invested?

Question : 4

Karan took a loan on simple interest at the rate of 12% per year, after 8 months he paid 8100. How much loan was taken by Karan?

Question : 5

What will be the simple interest on 10000 after 3 years at the rate of 5% per quarter?

John invested a sum of money at annual simple interest rate of 10%, At the end of four years the amount invested plus interest earned was Rs.770. The amount invested was

(A) Rs.650 (B) Rs.350 (C) Rs.550 (D)Rs.500

Type 3:

Question : 1

Two equal sums were lent out at 7% and 5% S.I. respectively. The interest earned on the two loans add up to Rs.960 for 4 years. The total sum lent out in.

(a). Rs.3500 (b).Rs.2500(c).Rs.2000 (d). Rs.3000

Question : 2

A person borrowed 1,200 at 8% p.a. and 1,800 at 10% p.a. as simple interest for the same period. He has to pay ₹ 1,380 in all as interest. Find the time period?

Question : 3

A person invested a total of 9,000 in three parts at 3%, 4% and 6% per annum on simple interest. At the end of a year, he received equal interest in all three cases. The amount invested at 6% is

A person borrows 5,000 for 2 years at 4% per annum simple interest. He immediately lends it to another person at $6\frac{1}{4}\%$ per annum simple interest for 2 years. His gain in the transaction is

(1) 112.50 (2) 450 (3) 225 (4) 150

SSC CGL Prelim Exam. 13.11.2005)

Pre-assessment : Question : 4

A sum of Rs.50,250 is divided into two parts such that the simple interest on first part for $7\frac{1}{2}$ years at $8\frac{1}{3}$% p.a is $\frac{5}{2}$ times the simple interest on the second part for $5\frac{1}{4}$ years at 8% p.a. What is the difference (in Rs.) between the two parts?

Type 4:

Question : 1

Arun borrowed a sum of money from Jayant at the rate of 8 % Per annum simple interest for the first four years. 10% per annum For the next 6 years and 12% per annum for the period beyond 10 years If he pays a total of Rs. 12160 as interest only at the end of 15 years how much money did he borrow ?

(a) Rs. 8000 (b) Rs.10000 (c) Rs. 12000 (d) Rs. 9000

Question : 2

Ashok borrowed some money at the rate of 6 % per annum for the first two years , at the rate 9% per annum for the next three years and the rate of 14% per annum for the period beyond five years. If he pays a total interest of Rs. 11400 at the end of 9 years. How much money did he borrow?

(a) Rs. 16,000 (b) Rs. 14,000 (c) Rs. 18,000 (d) Rs. 12,000

Question : 3

Nitin borrowed some money at the rate of 6% p.a. for the first three years, 9% p.a. for the next five years and 13% p.a. for the period beyond eight years. If the total interest paid by him at the end of eleven years is Rs.8160, the money borrowed by him (in Rs.) was :

Type 5:

A certain sum becomes Rs. 1020 in 5 years and Rs. 1200 in 8 years at simple interest. What is the value of principal?

A sum of money lent out at simple interest amounts to Rs.720 after 2 years and to Rs. 1020 after a further period of 5 years. The sum is

What sum of money will be amount to Rs. 520 in 5 years and to Rs. 568 in 7 years at simple interest

A sum of money amounts to 5,200 in 5 years and to 5,680 in 7 years at simple interest. The rate of interest per annum is

A sum of money at some rate of simple interest amounts to Rs.2900 in 8 years and to Rs 3000 in 10 years the rate of interest per annum is :

If a sum of money becomes Rs. 4000 in 2 years and Rs. 5500 in 4 years 6 months at the same rate of interest per annum , then the rate of simple interest is

(SSC CGL Tier-II 2016)

(a) $21\frac{3}{7}\%$ **(b)** $21\frac{2}{7}\%$ **(c)** $21\frac{1}{7}\%$ **(d)** $21\frac{5}{7}\%$

Type 6:

A Sum was put at SI at a certain rate for 2 years. Had it been put at 3% higher rate , it would have fetched Rs 300 more. Find the sum .

A certain sum amounts to Rs 15,748 in 3 years at r % p.a. simple interest. The same sum amounts to Rs 16,510 at (r + 2) % p.a. simple interest in the same time. What is the value of r ?