

## Date Interpretation Info Chart Questions Quiz for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

## **DI Info Chart Quiz 8**

Directions: Study the given information carefully to answer the questions.

Krishna invested some money under 20% per annum simple interest in Axis bank. At the end of one – year, he withdrew all amount from the Axis bank and invested in Bandhan bank at the rate of R % per annum under compound interest compounded annually for two years and received Rs. 57600 as total interest from the Bandhan bank. The first year's interest at Bandhan bank was Rs. 24000.

1. In starting, how much money had Krishna invested in Axis bank?								
A. Rs. 60000			B. Rs. 75000		C. F	Rs. 10000	D. Rs. 50000	E. None of these
tog	Total ho ether? s. 68600	ow mu	ch inter B. Rs. 67			<b>na get from t</b> Rs. 64600	he Axis bank and D. Rs. 71200	<b>d the Bandhan bank</b> E. None of these
3. If the rate of interest was interchanged i.e. Axis bank had offered R% per annum simple interest and Bandhan bank had offered 20% per annum compound interest then how much less money Krishan would have received at the end of 3 years?A. Rs. 16800B. Rs. 15800C. Rs. 14800D. Rs. 16400E. None of these								
4. If Krishan had invested the sum of money only in Axis bank for 3 years under 20% per annum simple interest then at the end of 3 years, total how much simple interest he would have received from the Axis bank?A. Rs. 25000B. Rs. 30000C. Rs. 40000D. Rs. 20000E. None of these								
<b>5.</b> If the first year's interest at Bandhan bank was same as the simple interest received from the Axis bank at the end of 1 year and the rate of interest for the Bandhan bank remained constant then what should be the rate of interest for Axis bank?								
				u be the				
A. 4	0%	_	B. 50%	u be the		$36 \frac{2}{3} 2/3 \%$		E. 43 $\frac{2}{5}$ %
		_		a be the				
	0%	_		4	C. 6			
	0% rect Ans	swers:	B. 50%		C. 6			

## **Common explanation :**

Let the sum of money he invested in Axis bank = 100x then at the end of one year

Amount = 
$$\frac{100x \times 1 \times 20}{100}$$
 + 100x= 120x

The Cl of 2 years = 57600 The Cl of 1 year = 24000 Difference = 57600 - 24000 = 33600 Now, 33600 - 24000 = 9600 At R% per annum, 24000 gives compound interest of Rs. 9600

 $\frac{24000 \times R}{100} = 9600$ 

R = 40% per annum

## Answers :-

 Following the common explanation, we get At 40% per annum, 120x gives compound interest of 57600 in two years or Rs. 24000 in one year

$$CI = P \left(1 + \frac{R}{100}\right)^{N} - P$$

$$120x\left(1+\frac{40}{100}\right) - 120x = 24000$$

 $120x \times 1.4 - 120x = 24000$ 168x - 120x = 48x = 24000

$$x = \frac{24000}{48} = 500$$

The sum of money he had invested in Axis bank =  $100x = 100 \times 500 = Rs. 50000$ 

Hence, option D is correct.

2. Following the common explanation, we get The interest, Krishna received from Axis bank =  $20x = 20 \times 500 = 10,000$ The interest from Bandhan bank = 57600The required sum = 10,000 + 57600 = 67600Hence, option B is correct. 3. Following the common explanation, we get P = 50000R = 40%1st year = 40% per annum SI Next 2 years = 20% per annum CI Amount at the end of 1st year i.e. received from the Axis bank = 50000 + 40% of 50000 = 70000 SI = 70000 - 50000 = 20000From the Bandhan bank  $\mathsf{CI} = \mathsf{P} \left( 1 + \frac{\mathsf{R}}{100} \right)^{\mathsf{N}} - \mathsf{P}$  $CI = 70000 \left(1 + \frac{20}{100}\right)^2 - 70000$ CI = 30800Total interest = 20000 + 30800 = 50800 The interest, Krishna received from Axis bank = 20x = 20 × 500 = 10,000 The interest from Bandhan bank = 57600 The required sum = 10,000 + 57600 = 67600The required difference = 67600 - 50800 = 16800Hence, option A is correct. 4. Following the common explanation, we get P = 50000SI at the end of 3 years =  $\frac{50000 \times 20 \times 3}{100}$  = Rs. 30,000 Hence, option B is correct. 5. Following the common explanation, we get P = 50,000Let the interest received from the Axis bank = Rs. x then the first year's interest at Bandhan bank = 40% of (50000 + x) = x20000 + 0.4x = x0.6x = 20000 $x = \frac{200000}{6} = \frac{100000}{3}$  $R = \frac{SI \times 100}{P \times T}$  $R = \frac{(100000/3) \times 100}{50000 \times 1} = \frac{1000}{15} = \frac{200}{3} \% = 66\frac{2}{3}\%$ Hence, option C is correct.

