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Simple Interest Questions for Bank, SSC and Railway Exams – Simple Interest Quiz at Smartkeeda.

Simple Interest Quiz 1

Directions: Kindly study the following Questions carefully and choose the right answer:

1. A certain amount earns simple interest of Rs. 1750 after 7 years. Had the interest been 2% more, how much more interest would it have earned?

- A. Rs. 35 B. Rs. 350 C. Rs. 245
D. Can't be determined E. None of these

2. The simple interest on a sum of money will be Rs. 200 after 5 yr. In the next 5 year, principal is tripled. What will be the total interest at the end of the 10th year?

- A. Rs. 650 B. Rs. 850 C. Rs. 800
D. Can't be determined E. None of these

3. A sum of money becomes 9 times in 20 years. Find the 10 times of rate of interest.

- A. 350% B. 45% C. 400%
D. 250% E. None of these

4. A sum becomes 6 fold at 5% per annum. At what rate, the sum becomes 12 fold?

- A. 10% B. 12% C. 9%
D. 11% E. None of these

5. The rates of simple interest in two banks x and y are in the ratio of 10 : 8. Rajini wants to deposit her total savings in two banks in such a way that she receives equal half-yearly interest from both. She should deposit the savings in banks x and y in the ratio of

- A. 4 : 5 B. 3 : 5 C. 5 : 4
D. 2 : 1 E. None of these

6. The simple interest accrued on an amount of Rs. 12450 at the end of 6 years is Rs. 8964. What is the rate of interest per year?

- A. 8% B. 14% C. 10%
D. 12% E. None of these

7. The simple interest on a sum of money will be Rs. 600 after 10 years. If the principal is trebled after 5 years, what will be the total interest at the end of the tenth year?

- A. Rs. 600 B. Rs. 900 C. Rs. 1200
D. Rs. 1500 E. None of these

8. According to a new plan rolled out by HISP Bank, the rate of simple interest on the sum of money is 8% pa for the first two years, 10% pa for the next three years and 6% pa for the period beyond the first five years. The simple interest accrued on a sum for a period of eight years is Rs. 12,800. Find the sum

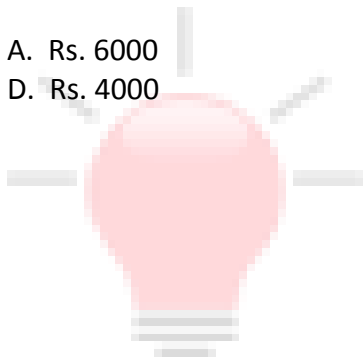
- A. Rs. 24000 B. Rs. 16000 C. Rs. 15000
D. Rs. 13500 E. None of these

9. A certain sum of money amounts to Rs. 720 in 2 years and ₹ 870 in 4.5 years. Find the sum and the rate of interest.

- A. Rs. 600, 10% B. Rs. 600, 12% C. Rs. 620, 12%
D. Rs. 660, 12% E. None of these

10. Rs. 16000 was invested for three years, partly in scheme A at the rate of 5% simple interest per annum and partly in scheme B at the rate of 8% simple interest per annum. The total interest received at the end was Rs. 3480. What amount of money was invested in scheme A?

- A. Rs. 6000 B. Rs. 6500 C. Rs. 4500
D. Rs. 4000 E. Rs. 8000



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Correct Answers:

1	2	3	4	5	6	7	8	9	10
D	C	C	D	A	D	C	E	A	D

Explanations:

1. When we solve this question, we find that we have two variables P (Principal) and R (Initial assumed rate of interest) in the R.H.S. of the SI equation. Therefore, the correct answer can't be determined.

2. According to the question,

SI for first 5 yrs = Rs 200

SI for next 5 yrs = Rs 200×3 = Rs 600

∴ Total SI for 10 yr = Rs. (200 + 600) = Rs. 800.

When principal is trebled, then SI for 5 yr will also be treble and hence SI for next 5 yr will be Rs. (200 × 3) = Rs. 600

Hence, option C is correct.

3. According to the formula,

$$\text{Rate} = \frac{100(n-1)}{T}$$

$$= \frac{100(9-1)}{20} = \frac{800}{20} = 40\%$$

∴ 10 times of 40% = 400%

Hence, option C is correct.

4. Method I:

Given, $R_1 = 5\%$, $n = 6$, $m = 12$

According to the formula,

$$R_2 = \frac{m-1}{n-1} \times R_1$$

$$= \frac{12-1}{6-1} \times 5 = \frac{11}{5} \times 5 = 111\%$$

Method II:

SI at 5% = $6P - P = 5P$

$$\therefore 5P = \frac{P \times 5 \times T}{100}$$

$$\Rightarrow T = 100 \text{ yr}$$

Now, for new rate (R),

$$11P = \frac{P \times R \times 100}{100}$$



$$\therefore R = 11\%$$

Hence, option D is correct.

5. Let the savings be P and Q and rates of SI be 10x and 8x, respectively.

$$\text{Then, } P \times 10x \times \frac{1}{2} \times \frac{1}{100} = Q \times 8x \times \frac{1}{2} \times \frac{1}{100}$$

$$\Rightarrow 10P = 8Q$$

$$\therefore \frac{P}{Q} = \frac{8}{10} = \frac{4}{5}$$

$$\therefore P : Q = 4 : 5.$$

Hence, option A is correct.

6. SI = 8964 and T = 6 yrs, P = 12450

$$\text{Then, rate} = \frac{8964 \times 100}{12450 \times 6} = 12\%$$

Hence, option D is correct.

7. Given that

Simple interest for 10 years = Rs. 600

Therefore, SI for 1 year = Rs. 60

Therefore, SI for 5 years = Rs. 300

Now, if the principal is trebled, the interest will also be trebled.

Therefore, SI for next 5 years = Rs. 300 × 3 = Rs. 900

Hence, total interest after 10 years = 300 + 900 = Rs. 1200

Hence, option C is correct.

8. Total rate of interest = $(2 \times 8 + 3 \times 10 + 3 \times 6)\%$

$$= (16 + 30 + 18)\% = 64\%$$

Let the sum be x, then

$$\therefore 64\% \text{ of } x = 12800$$

$$x = \frac{12800 \times 100}{64} = 20000/-$$

Hence, option E is correct.

9. Let the sum be P; the rate of interest be R.

Then, Amount = P + SI

$$720 = P + \frac{P \times R \times 2}{100} \quad \dots (i)$$

$$870 = P + \frac{P \times R \times 4.5}{100} \dots(ii)$$

Eq. (ii) – (i),

$$\frac{2.5PR}{100} = 150$$

$$\Rightarrow PR = 6000 \dots(iii)$$

Now, from eq (i),

$$720 = P + \frac{6000 \times 2}{100}$$

$$\Rightarrow P = 720 - 120 = \text{Rs. } 600$$

From eq. (iii),

$$600 \times R = 6000$$

$$\Rightarrow R = 10\%$$

Hence, option A is correct.

10. Let the sum invested in scheme A be Rs. x.

Then the amount invested in scheme B = Rs. (16000 – x)

$$\text{Now, } \frac{x \times 5 \times 3}{100} + \frac{(16000 - x) \times 3 \times 8}{100} = 3480$$

$$\Rightarrow 15x + 384000 - 24x = 3480 \times 100$$

$$\Rightarrow 9x = 384000 - 348000 = 36000$$

$$\therefore x = \frac{36000}{9} = \text{Rs. } 4000$$

Hence, option D is correct.



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