

Crack CSIR-NET Part A

(Most Important Question On
Simple Interest)



1. Ms Ayesha borrowed Rs. 1000 at 5% per annum simple interest. What amount (in rupees) will she pay to clear her debt after 4 years?

- A. 200
- B. 1200
- C. 220
- D. 1300

2. The amount of simple interest on a deposit of ₹8,500 for 3 years is ₹2,040. Find the rate of interest per annum.

- A. 8%
- B. 8.5%
- C. 9%
- D. 7.5%

3. Find the simple interest of Rs. 2000 for 8.25% yearly rate from 9 March, 2010 to 21 May, 2010.

- (A) Rs. 43 (B) Rs. 37
- (C) Rs. 33 (D) Rs. 40

- A. (A)
- B. (B)
- C. (D)
- D. (C)

4. Ram lends 6000 to Shiv for 3 years and 8000 to Krishna for 5 years at same annual rate. He received 5220 in all from both as interest. The rate of interest per annum is :

- (A) 6% (B) 7%
- (C) 8% (D) 9%
- A. (C)
- B. (B)
- C. (A)
- D. (D)

5. The simple interest on a certain sum of money for 2 years at 10% per annum is Rs. 2000. If interest compounded yearly on the sum, then what will be the difference of both type of interest:

- (A) Rs. 200 (B) Rs. 220
- (C) Rs. 100 (D) Rs. 120
- A. (D)
- B. (B)
- C. (C)
- D. (A)

6. An amount was invested at a simple rate of interest p.a. for 5 years. It would have fetched Rs. 300 more had it been invested at 2% higher rate. What was the amount invested?

- A. Rs. 3300
- B. Rs. 3000
- C. Rs. 2000
- D. Rs. 2300

7. Ms. Diksha borrowed Rs. 575 at 5% per annum simple interest. What amount (in rupees) will she pay to clear her debt after 4 years?

- A. 690
- B. 151
- C. 960
- D. 115

8. The maturity values of an amount in 5 and 6 years at 8% simple interest p.a. are Rs. 1120 and Rs. 1184 respectively. Find the amount.

- A. Rs. 560
- B. Rs. 800
- C. Rs. 160
- D. Rs. 600

9. A sum of money at simple interest amounts to ₹2100 in 2 yr and ₹2250 in 5 yr. The principal and the rate of interest

- A. ₹1800, 3%
- B. ₹1800, 5%
- C. ₹2000, 3%
- D. ₹2000, $2\frac{1}{2}\%$

10. A sum was invested, on simple interest at a certain rate for 2 yr. Had it been put at 3% higher rate, it would have fetched ₹ 72 more. The sum is

- A. ₹ 1200
- B. ₹ 1500
- C. ₹ 1600
- D. ₹ 1800

SOLUTION

1. Ans. B.

Interest in 4 years = $5\% \times 4 = 20\%$ of the Principal

Hence, Interest = $20\% \times 1000 = \text{Rs } 200$

Amount = $1000 + 200 = \text{Rs } 1200$

Hence, option B is the correct answer.

2. Ans. A.

Simple Interest = Rs. 2040

Principal = Rs. 8500

We know that ,

$$\text{Simple Interest} = \frac{\text{Principal} \times \text{Rate} \times \text{Time}}{100}$$

$$\Rightarrow 2040 = \frac{8500 \times \text{Rate} \times 3}{100}$$

$$\Rightarrow \text{Rate} = \frac{2040 \times 100}{8500 \times 3} = \frac{204000}{25500} = 8$$

Hence, Rate of interest per annum = 8%

3. Ans. D.

Total days =
23(March) + 30(April) + 21(May)
= 74 days = $74/365$ years

$$S.I = \frac{2000 \times 8.25 \times 74}{100 \times 365}$$

$$= 33(\text{approx})$$

4. Ans. D.

Let rate be $r\%$

Interest on first = $r\%$ of $(6000 \times 3) = 180r$

Interest on second = $r\%$ of $(8000 \times 5) = 400r$

Now, according to question:

$$5220 = 180r + 400r$$

$$r = 5220/580 = 9\%$$

5. Ans. C.

At SI: total interest rate in two years = 20%

At CI: total Interest rate in two years =
 $10 + 10 + (10 \times 10)/100 = 21\%$

Now $20\% = \text{Rs. } 2000$

$$\Rightarrow 1\% = \text{Rs. } 100$$

Thus, Difference between CI and SI =
 $21\% - 20\% = 1\% = \text{Rs. } 100$

6. Ans. B.

Difference in the simple interest in 5 years = $2 \times 5 = 10\%$

Given, 10% of the Amount = Rs 300

Hence, the amount = $300 \times 10 = \text{Rs } 3000$

7. Ans. A.

Principal = Rs. 575

Rate = 5% per annum simple interest

Time = 4 years

$$\text{Simple Interest} = \frac{575 \times 5 \times 4}{100} = \text{Rs. } 115$$

Amount payable after 4 years =
Rs. 575 + Rs. 115 = Rs. 690

8. Ans. B.

Given, 8% of the amount = 1184 – 1120
= Rs 64

Hence, the amount = $(64/8) \times 100 = \text{Rs } 800$

9. Ans. D.

$$\text{Rate \%} = \frac{(B - A) \times 100}{(Ab - Ba)}$$

(Here B = 2250, A = 2100, b = 5 and a = 2)

$$\begin{aligned} &= \frac{(2250 - 2100) \times 100}{2100 \times 5 - 2250 \times 2} \\ &= \frac{150 \times 100}{10500 - 4500} \\ &= \frac{15000}{6000} = 2\frac{1}{2} \% \end{aligned}$$

$$\text{Principal} = \frac{Ab - aB}{(b - a)}$$

$$\begin{aligned} &= \frac{2100 \times 5 - 2250 \times 2}{(5 - 2)} \\ &= \frac{(10500 - 4500)}{3} \end{aligned}$$

= Rs. 2000

10. Ans. A.

We have,

$$SI = \frac{P \times R \times T}{100} = \frac{P \times R \times 2}{100} = \frac{P \times R}{50}$$

Now,

$$\begin{aligned} \frac{P \times R}{50} + 72 &= \frac{P \times (R + 3) \times 2}{100} \\ \frac{P \times R}{50} + 72 &= \frac{P \times R}{50} + \frac{3P}{50} \\ \frac{3P}{50} &= 72 \\ P &= 1200 \end{aligned}$$

Thus, the sum is ₹1200.

Hence, option A is correct.

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