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# Date Interpretation Table Chart Questions for IBPS PO Mains, SBI PO Mains and RBI Grade B Exams.

## DI Table Chart Quiz 1

**Direction: Study the following table carefully and answer the questions based on it.**

Rate of interest (P.C.P.A.) offered by five companies on deposits under different schemes

| Company→ Scheme↓ | A | B | C | D | E |
|---|---|---|---|---|---|
| I | 8.5 | 9.0 | 8.5 | 8.5 | 9.0 |
| II | 9.0 | 8.0 | 9.5 | 9.0 | 8.5 |
| III | 8.5 | 8.5 | 8.0 | 10.0 | 8.0 |
| IV | 10.0 | 9.0 | 10.5 | 9.0 | 10.5 |

**1. Mr. A deposited an amount in Scheme II with Company B for two years. After that he withdrew the amount and reinvested only the principle amount in scheme IV of company A for two years. Total amount of simple interest accrued from the two schemes is Rs. 15,120. What was the principle amount?**

A. Rs. 48,000        B. Rs. 42,000        C. Rs. 40,000        D. Cannot be determined
E. None of these

**2. Company C offers compound interest under scheme III and simple interest under scheme IV. Harsh invested Rs. 25,000 with this company under scheme IV and after one year switched to scheme III along with the interest for two more years. What is the total interest he received in three years?**

A. Rs. 6979.80        B. Rs. 7221.80        C. Rs. 7591.80        D. Rs. 7987.80        E. None of these

**3. Mr. Bal invested Rs. 25,000 in Company B under scheme II, which offers simple interest and Rs. 50,000 in Company E under scheme III, which offers compound interest. What will be the total amount received by Mr. Bal in two years?**

A. Rs. 80320        B. Rs. 82320        C. Rs. 85320        D. Rs. 87320        E. None of these

**Correct Answers:**

| 1 | 2 | 3 |
|---|---|---|
| B | B | D |

**Explanations:**

**1.** Let the principle be P

$S.I = \dfrac{PRT}{100}$ where P is principle amount,

R is rate of interest and T is time of investment

For First two years

$SI = \dfrac{(P \times 8 \times 2)}{100} = \dfrac{16P}{100}$

For next two years
Principle = P
Rate = 10%

$SI = \dfrac{(P \times 10 \times 2)}{100} = \dfrac{20P}{100}$

Total interest $= \dfrac{20p}{100} + \dfrac{16p}{100} = \dfrac{36p}{100}$

$\dfrac{36p}{100} = 15120$

P = Rs. 42000

Hence option B is correct.

**2.** We know that
Where:
C.I. = Compound Interest, P = the principal investment amount,
r = the annual interest rate, n = the number of times that interest is compounded per year,
t = the number of years
For the first year
Principal = Rs. 25000
R = 10.5%
$S.I. = \dfrac{(25000 \times 10.5 \times 1)}{100} = Rs.\ 2625$
For the next two years
Principal = 25000 + 2625 = Rs 27625
R = 8%
$C.I. = 27625\left(1 + \dfrac{8}{100}\right)^{2} - 27625 = Rs\ 4596.80$
Total interest earned = 2625 + 4596.80 = Rs.7221.80
Hence, option B is correct.

**3.** We know that

$$C.I. = P\left(1 + \frac{r}{100 \times n}\right)^{nt} - p$$

Where:

C.I. = Compound Interest, P = the principal investment amount,

r = the annual interest rate, n = the number of times that interest is compounded per year,

t = the number of years

For company B

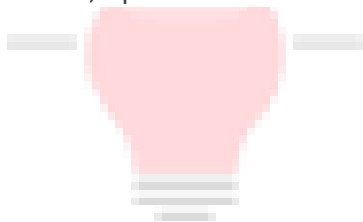$$S.I. = \frac{PRT}{100} = \frac{(25000 \times 8 \times 2)}{100} = Rs.\ 4000$$

Amount received = Principal + Interest = 25000 + 4000 = Rs. 29000

For company E

Amount = $50000\left(1 + \frac{8}{100}\right)^{2}$ = Rs. 58320

Total amount received at the end of two years = 29000 + 58320 = Rs. 87320

Hence, option D is correct.