Date Interpretation Table Chart Questions for Bank Clerk Mains and PO Pre Exams.

DI Table Chart Quiz 39

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

Schemes	Type of Interest	Principal	% of Rate	Years	Amount
A	Simple Interest	22000	-	4	35200
B	Compound Interest	-	10%	2	30250
C	Compound interest	10000	20%	-	17280
D	Simple interest	22500	12%	-	29250
E	Compound interest	27500	16%	2	-

1. Sajal invested double money of scheme A in scheme F at C. I. and at the end of 3 years he received Rs 14564 as interest. Find the rate of interest of scheme F.

A. 8% B. 10% C. 12% D. 15% E. None of these

2. For how much time did the money invest in scheme D?

A. 4.5 years B. 5 years C. 2.5 years D. 3 years E. 4 years

3. If the ratio of the interest rate of scheme G to that scheme C is 5 : 4 and at the end of 2 years the interest received by a person in scheme G at simple interest is Rs 9750, find the principal.

A. Rs 22500 B. Rs 25200 C. Rs 15500 D. Rs 19500 E. None of these

4. What is the difference between the Compound interest and Simple interest of Scheme B at the end of 2 years?

A. Rs 300 B. Rs 250 C. Rs 350 D. Rs 400 E. Rs 500

5. What is the total interest earned by a person by investing amount in all the schemes for the time given?

A. Rs 45200 B. Rs 53620 C. Rs 48965 D. Rs 40230 E. None of these

Correct Answers:

1	2	3	4	5
B	C	D	B	E

Explanations:

1. Principal = 2 × 22000 = Rs 44000, Interest = Rs 14564, time = 3 years

Amount = 44000 + 14564 = Rs 58564

$A = P\left(1 + \frac{r}{100}\right)^{n}$

$58564 = 44000\left(1 + \frac{r}{100}\right)^{3}$

$\frac{58564}{44000} = \left(1 + \frac{r}{100}\right)^{3}$

$\frac{1331}{1000} = \left(1 + \frac{r}{100}\right)^{3}$

$\frac{11}{10} = 1 + \frac{r}{100}$

$\frac{r}{100} = \frac{1}{10}$

r = 10%

Hence, option B is correct.

2. Principal = Rs 22500, rate = 12%, Amount = Rs 29250, S.I. = 29250 – 22500 = Rs 6750

$S.I. = P \times r \times \frac{t}{100}$

6750 = 22500 × 12% × t

t = 2.5 years

Hence, option C is correct..

3. Interest rate of G : interest rate of C = 5 : 4

Interest rate of G = $\frac{20}{4} \times 5 = 25\%$

S.I. = Rs 9750, time = 2 years

S.I. = P × r% × t

9750 = P × 25% × 2

9750 ÷ 25% ÷ 2 = P

P = 19500

Principal = Rs 19500

Hence, option D is correct.

4. Amount = Rs 30250, time = 2 years, interest rate = 10%

$A = P\left(1 + \frac{r}{100}\right)^t$

$30250 = P\left(1 + \frac{10}{100}\right)^2$

$30250 = P\left(\frac{11}{10}\right)^2$

$30250 = P \times \frac{121}{100}$

P = 25000

Difference = $P\left(\frac{r}{100}\right)^2$

Difference = $25000\left(\frac{10}{100}\right)^2$

= 250

Difference between C.I. and S.I for 2 years is Rs 250.

Hence, option B is correct.

5. Interest of scheme A = 35200 – 22000 = Rs 13200

Interest of scheme B,

$A = P\left(1 + \frac{r}{100}\right)^{t}$

$30250 = P\left(1 + \frac{10}{100}\right)^{2}$

$30250 = P \times \frac{121}{100}$

P = 25000

Interest of scheme B = Rs 5250

Interest of scheme C = 17280 – 10000 =Rs 7280

Interest of scheme D = 29250 – 22500 = Rs 6750

Interest of scheme E,

$\text{Interest} = P\left(1 + \frac{r}{100}\right)^{t} - P$

$= 27500\left(1 + \frac{16}{100}\right)^{2} - 27500$

$= 27500\left(\frac{29}{25}\right)^{2} - 27500$

= 37004 – 27500 = 9504

Total interest = 13200 + 5250 + 7280 + 6750 + 9504 = Rs 41984

Hence, option E is correct.