Tamish
X (A)
Maths
2 May 2021
Sunday

Ans1. M.V = 100 of 40%

$= \frac{100 \times 40}{100} = 40$

M.V = 100 + 40

= ₹140

Investment = n x M.V

= 1800 x 140

= 252000

Ans2. P = ₹ 1800

T = 12 months

I = ₹1404

R = ?%

$I = \frac{P \times n(n+1) \times R}{24 \quad 100}$

$1404 = \frac{1800 \times 12 \times 13 \times R}{2 \quad 100}$

1404 = 117 R

$\frac{1404}{117} = R$

12% P.A = R

61 × 6 = 366

$$17694 - 14400 = 3294$$

Ans: T = 5×12
= 60 months
P = ₹240
MOV = ₹17694
r = ?

$$MOV = P\times n + P\times \frac{n(n+1)}{24}\times\frac{r}{100}$$

$$17694 = 240\times60 + 240\times\frac{60\times61}{24}\times\frac{r}{100}$$

$$17694 = 14400 + 366r$$

$$17694 - 14400 = 366r$$

$$\frac{3294}{366} = r$$

9% pa

Ans: T = 2×12 = 24 months
R = 6% pa
I = ₹1200

$$I = P\times\frac{n(n+1)}{24}\times\frac{r}{100}$$

$$1200 = P\times\frac{24\times25}{24}\times\frac{6}{100}$$

$$2400 = 3P$$

₹800 = P

1200 1900 3900
1900 3 19900 1600 ×
19900

M.V = P × n + I
= 800 × 24 + 1200
= 19200 + 1200
= 20400

Ans 5 T = 36 months
R = 8% p.a
M.V = ₹80880
P = ?

$M.V = P \times n + P \times \frac{n(n+1)}{24} \times \frac{R}{100}$

$80880 = P \times 36 + P \times \frac{36 \times 37}{24} \times \frac{8}{100}$

$80880 = P(36 + 4.44)$

$80880 = P \times 40.44$

$\frac{80880 \times 100}{4044} = P$

$\frac{8088000}{4044} = P$

20000

100.0
- 0.3
99.7

6° Investment of B = 50000 / 2 = 25000

0.3 / 100 = 0.3

100 - 0.3 = 99.7

I = n x m.v

5000 = n x 100

2 500 = n

5° Investment of A & B = 160000 / 2 = 50000 each

Rate of return = AI / I x 100

3° = AI / 80000 x 100

2240 = AI

AI = n x f.v x m.d

3240 = 80 x 100 x m.d

3 / 100 = m

0.03% = m