

Tamish  
X(A)  
Maths  
2 May 2021  
Sunday

$$\text{Ans 1. } M^{\circ}V = 100 \text{ of } 40\% \\ = \frac{100 \times 40}{100} = 40$$

$$M^{\circ}V = 100 + 40 \\ = ₹140$$

$$\text{Investment} = n \times M^{\circ}V \\ = 1800 \times 140 \\ = 252000$$

$$\text{Ans 2. } P = ₹1800$$

$$T = 12 \text{ months}$$

$$I = ₹1404$$

$$R = ?\%$$

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

$$1404 = \frac{1800 \times 12 \times 13}{24 \times 100} \times R$$

$$1404 = 117 R$$

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

$$117$$

$$12\% \text{ } P.M. = R$$

$$\begin{array}{r} 13 \\ \times 4 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 17691 \\ - 14400 \\ \hline 3291 \end{array}$$

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$$\begin{array}{r} 240 \\ \times 6 \\ \hline 1440 \\ 000 \\ \hline 1440 \end{array}$$

Nov T = 5 x 12

= 60 months

P = ₹ 240

Mov = ₹ 17691

M = ?

$$M \cdot V = P \times n + P \times n (n+1) \times r$$

24      100

$$17691 = 240 \times 60 + 240 \times 60 \times 61 \times r$$

24      100

$$17691 = 14400 + 386r$$

$$17691 - 14400 = 386r$$

$$\begin{array}{r} 3291 \\ - 366 \\ \hline 1925 \\ - 366 \\ \hline 1559 \\ - 366 \\ \hline 1193 \\ - 366 \\ \hline 827 \\ - 366 \\ \hline 461 \end{array}$$

$$\begin{array}{r} 3291 = r \\ 366 \\ \hline 9.010\% \text{ p.a.} \end{array}$$

$$3\% 5.0\% \text{ p.a.}$$

Nov T = 2 x 12 = 24 months

R = 6.0% p.a.

TMOV = ₹ 1200

$$I = P \times n (n+1) \times r$$

24      100

$$1200 = P \times 24 \times 25 \times 63$$

24      100

32

$$\begin{array}{r} 2400 \\ - 2400 \\ \hline 0 \end{array}$$

Form - P

$$\begin{array}{r} 1200 \\ 1200 \end{array}$$

$$\begin{array}{r} 1300 \\ 1300 \end{array}$$

$$\begin{array}{r} 3200 \\ 1000 \times \\ 19000 \end{array}$$

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$$MOV = P \times n + I$$

$$= 800 \times 24 + 1200$$

$$= 19200 + 1200$$

$$= 20400$$

Ans 5  $I = 36 \text{ mmms}$

$$R = 8 \text{ " } 10 \text{ Pa}$$

$$MOV = 280880$$

$$P = ?$$

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

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

$$80880 = P (36 + 4.44)$$

$$80880 = P \times 40.44$$

$$\frac{80880 \times 100}{40.44} = P$$

$$40.44$$

$$\frac{8088000}{40.44} = P$$

$$40.44$$

$$22000$$

$$\begin{array}{r} 1000 \\ - 0.3 \\ \hline 999.7 \end{array}$$

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6. Investment of  $\text{₹ } 8000 = \frac{16000}{2} = \text{₹ } 8000$

$\frac{10000}{100} = 100$

$100 \times 0.3 = 30$

$I = n \times m \times v$   
 $8000 = n \times 100$   
 $28000 = n$

7. Investment of  $\text{₹ } 8000 = \frac{16000}{2} = \text{₹ } 8000$

Rate of return =  $\frac{AI}{I} \times 100$

$3\% = \frac{AI}{8000} \times 100$

$240 = AI$

$AI = n \times f \times v \times r \times d$

$240 = 80 \times 100 \times r \times d$

$\frac{3}{100} = r$

$0.03 = r$

$0.03\% = r$