BANKING

Recurring: Jo Bar Bar ho Tha hai fixed amount —> principal no of menth - P Pate of Enterest -> R maturity value: Amount recieved at end of maturity period

IP per month (principal contant) n month - R -> Rade of Interest R-1. P.a Leer arrun/ year) PX []+ 2+-- 3---] Fig. = $\frac{9}{2}$ $\left(\frac{n(n+1)}{2}\right)^{-1}$ Sum of natural nois

$$I = F.P \times R \times T$$

$$\downarrow 100$$

$$SI = Px (n(ntil) \times R \times 1$$

$$= R \times (n(ntil) \times R \times 1$$

Ex:5 => year,

$$\Gamma = \frac{2}{400}$$

 $R = \frac{2}{157}$
 $SI = \frac{170}{2} \times \frac{12}{12} \times \frac{R}{100}$
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 $SI = \frac{170}{2} \times \frac{1}{100} \times \frac{1}{2} \times \frac{R}{100} = \frac{17}{20} \times \frac{1}{100} \times \frac{1}{20} \times$

$$n^{2} + 401n - 8420 = 0$$

$$n^{2} + 421n - 200 - 8420 = 0$$

$$h(n+421) - 20(n+421) = 0$$

$$(n+421) (n-20) = 0$$

-10 = 20 $n \neq -421$

(1) Given,
$$P = 71000$$

$$N = 30 \text{ month}$$

$$R = 87.$$

$$SI = P(n)(n+1) \times \frac{1}{2} \times \frac{R}{100}$$

mv = fxp + 1 $= 1000 \times 36 + 4440$ = 36000 + 4440 mv = 40440

3 given,
$$P = 7600$$

 $T = \frac{5}{2} \times 12 = 30$ munth
 $R = 107$.

$$T = \int (0)(0+1) \times \int_{12}^{12} \frac{R}{100}$$

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$$mv = Pn + I$$

$$= 36 \times 600 + 2325$$

$$= 21600 + 2325$$

$$|Au = 723925|$$

(ii) Given,
$$f = \pm 600$$
 $T = 2\frac{1}{2} - \frac{5}{2} \times 12 = 3$ months

 $R = (\frac{2}{3} = \frac{20}{3})$.

 $ST = P \times (n) (n+1)$
 $2 \times 12 \times R$
 $2 \times 12 \times$

mv = (xn + I) $= 600 \times 30 + 1550$ = 18000 + 1550 mv = \$(9550)

(4) (i) Given,
$$mv = 8325$$
 $n = 36$
 $R = 4.5$
 $T = \frac{P(n)(n+1)}{2} \times \frac{L}{12} \times \frac{R}{100}$

$$8325 = 1 \times 3 \times 37$$

$$\frac{1}{2} \times \frac{15}{12} \times \frac{15}{10} \times 100$$

$$8325 = (\times 111 \times 75)$$

$$2 \times 1000$$

P = 72000