

⑤ Money borrowed (P) = Rs 40960.00
rate = $\frac{25\%}{2}$ p.a. = $\frac{25\%}{4}$ half yearly
time = $1\frac{1}{2}$ years = 3 half years
amount paid = $P\left(1 + \frac{r}{100}\right)^n$
$$= 40960 \left(1 + \frac{25}{400}\right)^3$$
$$= 40960 \times \frac{17}{16} \times \frac{17}{16} \times \frac{17}{16}$$
$$= \text{Rs } 49130.00$$

⑥ Cost of house (P) = Rs 125000
time = $1\frac{1}{2}$ years = 3 half years
rate = 12% p.a. = 6% h.y.
amount = $P\left(1 + \frac{r}{100}\right)^n$
$$= 125000 \left(1 + \frac{6}{100}\right)^3$$
$$= 125000 \times \frac{53}{50} \times \frac{53}{50} \times \frac{53}{50}$$
$$= \text{Rs } 148877$$

⑦ Money deposited (P) = Rs 20000, $r = 6\%$ p.a. = 3% h.y.
time = 1 year = 2 h.y.
amount = $20000 \left(\frac{100+3}{100}\right)^2$
$$= 20000 \times \frac{103}{100} \times \frac{103}{100}$$
$$= \text{Rs } 21218$$