

VIII, EX 11 B, P 13
Solutions by Dev Anoop (Bathinda)

(29) Initial value of car (IV) = ₹ 3 48 000
 $r_1 = 10\% \text{ p.a.}$, $r_2 = 20\% \text{ p.a.}$

value of car after 2 years

$$= IV \left(1 - \frac{r_1}{100}\right) \left(1 - \frac{r_2}{100}\right)$$

$$= 348000 \times \frac{90}{100} \times \frac{80}{100}$$

$$= ₹ 250560.00$$

(30) Initial value of car (IV) = ?

Present value of car (PV) = ₹ 2 91 600
 $t = 3 \text{ years}$, $r = 10\% \text{ p.a.}$

$$PV = IV \left(1 - \frac{r}{100}\right)^n$$

$$291600 = IV \left(1 - \frac{10}{100}\right)^3$$

$$\overset{400}{\cancel{3600}} \underline{291600} = IV \times \frac{9}{10} \times \frac{9}{10} \times \frac{9}{10}$$

$$IV = ₹ 400,000$$