

## COMPONENT COSTS

DEBT  $PAL = \$1,000$   $n = 25 \text{ yrs}$   $C = \$80/\text{yr}$

1<sup>st</sup> BLOCK YIELD = 9%  $FC = 83.31$

$$P = 80(PVIFA_{9\%} - 25) + \frac{1000}{(1.09)^{25}}$$

$$P = \$901.77$$

$$- FC = 83.31$$

$$I_0 = 818.46$$

$$818.46 = 80(PVIFA_{k_{BT}} - 25) + \frac{1000}{(1+k_{BT})^{25}}$$

$$k = 10.0\%$$

$$k_{i_1} = 0.10 (1 - .40) = \underline{6\%}$$

$$k_{i_2} = 8\% \quad k_{i_3} = \underline{11\%} \quad (\text{GIVEN})$$

## PREFERRED

YIELD TO INVESTOR 16%

FLOTATION COSTS = 20% OF PRICE

$$\text{YIELD} = 0.16 = \frac{D}{P} \quad k_P = \frac{D}{I_0} \quad I_0 = .80P$$

$$\therefore k_{P_1} = \frac{D}{.80P} = \frac{.16}{.8} = \underline{20\%}$$

$$k_{P_2} = 23\% \quad k_{P_3} = 25\% \quad (\text{GIVEN})$$