$$\pi_0 = \frac{1-\rho}{1-\rho^{N+1}} = \frac{1-0.8}{1-0.8^2} = 0.2975$$

$$Z_1 = 0.2380$$
 $L = \frac{e \left[1 - e^N - Ne^{N-1} (1 - e) \right]}{(1 - e) \left[(1 - e) (1 - e^{N+1}) \right]}$

$$70z = 0.1904$$

$$= 0.8[1-0.8^{4}-4\times0.8^{3}\times(1-0.8)]$$

$$70z = 0.(523)$$

$$0.2\times(1-0.8^{5})$$

$$724 = 0.1218$$
 PPT = 1.0717

$$= \frac{0.8^{2} \left[1 - 0.8^{4} - 4 \times 0.8^{3} \times 0.2\right]}{0.863}$$

= 0.1074